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reported amounts of revenues and expenses during the reporting period. Some of the more significant estimates required to be made by management include the valuation of goodwill and intangible assets, deferred tax assets, equity-based transactions and liquidity assessment. Actual results may differ from these estimates.

À Cash and Cash Equivalents À Highly liquid investments with a maturity of three months or less when purchased are considered to be cash equivalents. The Company maintains its cash in mutual funds and deposit and money market accounts with high quality financial institutions which, at times, may exceed federally insured limits. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million and \$2.1 million, respectively, in cash equivalents invested in mutual funds. The Company has not experienced any losses on these deposits and believes it is not exposed to significant credit risk on cash.

À Revenue À The Company recognizes revenue in accordance with ASC 606 "Revenue from Contracts with Customers," by analyzing contracts with its customers using a five-step approach:

- À 1. Identify the contract
- À 2. Identify the performance obligations
- À 3. Determine the transaction price
- À 4. Allocate the transaction price to the performance obligations
- À 5. Recognize revenue when performance obligations are satisfied

F-7 À The revenue the Company has recognized in the nine months ended September 30, 2024 and 2023 were primarily derived from contracts to perform professional services. Revenue from time and materials-based contracts is recognized as the direct hours worked during the period times the contractual hourly rate, plus direct materials and other direct costs as appropriate, plus negotiated materials handling burdens, if any. Revenue from units-based contracts is recognized as the number of units delivered or performed during the period times the contractual unit price. Revenue from fixed price contracts is recognized as work is performed with estimated profits recorded on a percentage of completion basis. The Company has no cost-plus type contracts at this time.

À The Company includes depreciation and amortization expenses in manufacturing overhead, which is a component of cost of revenue. However, at the present time manufacturing overhead, including depreciation and amortization expense related to production equipment, is not material and the primary components of cost of revenue are direct labor and direct materials, with a small amount of shipping expenses.

À Accounts Receivable À Accounts receivable consists of amounts due from customers for work performed on contracts. The Company records accounts receivable at their net realizable value. Periodically the Company evaluates its accounts receivable to establish a provision for credit losses, when deemed necessary, based on the history of past write-offs, collections and current credit conditions. The customer accounts receivable as of September 30, 2024 are considered not fully collectible and thus the Company has recorded a provision for credit losses of \$3.5 thousand; the customer accounts receivable as of December 31, 2023 are considered fully collectible.

À Provision for Credit Losses À The Company estimates losses on loans and other financial instruments in accordance with Accounting Standards Update ("ASU") 2016-13, Measurement of Credit Losses on Financial Instruments. ASU 2016-13 introduces the current expected credit losses ("CECL") methodology for estimating allowances for credit losses. The CECL framework requires the Company to measure all expected credit losses for financial assets held at the reporting date based on historical experience, current conditions and reasonable and supporting forecasts. Under CECL, the allowance for credit losses is measured as the difference between the financial asset's cost basis and the net amount expected to be collected on the financial asset. CECL allows us to use information about past events including historical loan loss experience, current conditions, and reasonable and supportable forecasts to assess the collectability of the financial assets. The receivables for financial assets as of September 30, 2024 and December 31, 2023 are not considered fully collectible and thus management has recorded a provision for credit losses. See Note 9, Loan Receivable, for additional information.

À Inventory À Inventory is stated at the lower of cost or net realizable value. Cost is determined on a standard cost basis which approximates actual cost on a first-in-first-out method. Lower of cost or net realizable value is evaluated by considering obsolescence, excessive levels of inventory, deterioration and other factors. Adjustments to reduce the cost of inventory to its net realizable value, if required, are made for estimated excess, obsolescence or impaired inventory and are charged to cost of revenue. Once the cost of the inventory is reduced, a new lower-cost basis for that inventory is established, and subsequent changes in facts and circumstances do not result in the restoration or increase in that newly established cost basis. Factors influencing these adjustments include changes in demand, product life cycle and development plans, component cost trends, product pricing, physical deterioration and quality issues. Revisions to these adjustments would be required if these factors differ from our estimates.

À Operating Leases À The Company determines if an arrangement is a lease at inception. Operating lease right-of-use ("ROU") assets are included in right-of-use assets, net on the consolidated balance sheets. The current and long-term components of operating lease liabilities are included in the current operating lease liabilities and noncurrent operating lease liabilities, respectively, on the consolidated balance sheets.

F-8 À Operating lease ROU assets and operating lease liabilities are recognized based on the present value of the future minimum lease payments over the lease term. As most of the Company's leases do not provide an implicit rate, and the Company uses an incremental borrowing rate based on the information available at the commencement date in determining the present value of future payments. Certain leases may include options to extend or terminate the lease. Lease expense for minimum lease payments is recognized on a straight-line basis over the lease term. Leases with an initial term of 12 months or less are not recorded on the consolidated balance sheet. All of our operating leases are comprised of office space leases, and as of September 30, 2024 and December 31, 2023, we had no finance leases.

À Business Combinations and Valuation of Goodwill À We account for business combinations under the acquisition method of accounting. This method requires the recording of acquired assets and assumed liabilities at their acquisition date fair values. The excess of the purchase price over the fair value of assets acquired and liabilities assumed is recorded as goodwill. Results of operations related to business combinations are included prospectively beginning with the date of acquisition and transaction costs related to business combinations are recorded with general and administrative expenses.

À The Company reviews goodwill for impairment on an annual basis or whenever events or changes in circumstances indicate the carrying value may not be recoverable. The Company performs an annual impairment test by comparing the fair value of a reporting unit with its carrying amount. An impairment charge should be recognized for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. In addition, income tax effects from any tax-deductible goodwill carrying amount of the reporting unit should be considered when measuring the goodwill impairment loss, if applicable. The Company has determined that it has a single reportable unit for purposes of performing its goodwill impairment test. As the Company uses the market approach to assess impairment, its common stock price is an important component of the fair value calculation. If the Company's stock price continues to experience significant price and volume fluctuations, this will impact the fair value of the reporting unit and can lead to potential impairment in future periods. The Company performs its annual impairment test during the fourth quarter of each fiscal year. As of September 30, 2024, we had not identified any factors that indicated there was an impairment of our goodwill and determined that no additional impairment analysis was then required.

À Property and Equipment À Property and equipment are stated at cost or contributed value. Depreciation of furniture, software and equipment is calculated using the straight-line method over their estimated useful lives, and leasehold improvements are amortized on a straight-line basis over the shorter of their estimated useful lives or the lease term. The cost and related accumulated depreciation of equipment retired or sold are removed from the accounts and any differences between the un depreciated amount and the proceeds from the sale are recorded as a gain or loss on sale of equipment. Maintenance and repairs are charged against expense as incurred.

À Impairment of Long-Lived Assets À The Company has long-lived assets such as tangible property and equipment, identified intangible assets consisting of acquired patents and core technology. When events or changes in circumstances occur that could indicate the carrying value of long-lived assets may not be recoverable, the Company assesses recoverability by determining whether the undiscounted cash flows estimated to be generated by those assets are less than the carrying amounts of those assets. If the undiscounted cash flow is less, an impairment charge is recognized for the excess of the carrying amounts of these assets over the fair values. Fair values are determined by discounted future cash flows, appraisals or other methods.

À During the three and nine months ended September 30, 2024 and 2023, the Company did not record any impairment from long-lived assets.

À Fair Value of Financial Instruments À The carrying amount of certain financial instruments held by the Company, such as cash equivalents, accounts receivable, contract assets and liabilities, accounts payable, and accrued and other current liabilities, approximate fair value due to their short maturities. The carrying amount of the liabilities for the convertible preferred stock warrants represent their fair value. The carrying amounts of the Company's borrowings and lease liabilities approximate fair value due to the market interest rates that these obligations bear and interest rates currently available to the Company.

F-9 À Fair value is defined as the exchange price that would be received for an asset or an exit price paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The fair value hierarchy defines a three-level valuation hierarchy for disclosure of fair value measurements as follows:

- À Level 1 Unadjusted quoted prices in active markets for identical assets or liabilities;
- À Level 2 Inputs other than quoted prices included within Level 1 that are observable, unadjusted quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the related assets or liabilities; and
- À Level 3 Unobservable inputs that are supported by little or no market activity for the related assets or liabilities.

À The categorization of a financial instrument within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million of the \$3.1 million cash and cash equivalents and \$793 thousand of the \$2.1 million cash and cash equivalents, respectively, in Level 1 assets, comprised of U.S. Government mutual funds, and \$666 thousand and no carrying value, respectively, for Level 3 liabilities, which are comprised of derivative and warrant liabilities. See Note 11, Capital Stock "Warrants," for a full discussion of the warrant liability.

À Research and Development Costs À Research and development costs include costs directly attributable to the conduct of research and development programs, including the cost of services provided by outside contractors, acquiring work-in-progress intellectual property, development, and mandatory compliance fees and contractual obligations. All costs associated with research and development are expensed as incurred.

À Software Development Costs À Software development costs incurred subsequent to the establishment of technological feasibility for software intended to be sold, licensed or otherwise marketed to customers will be capitalized, but development costs not meeting the criteria for capitalization are expensed as incurred. With respect to internal use software, the Company will capitalize such development costs incurred during the application development stage, but development costs incurred prior to that stage will be expensed as incurred. No amortization expense will be recorded until the software is ready for its intended use. To date the Company has not incurred any material capitalizable software development costs.

À Stock-based Compensation À Stock-based compensation expense for expected-to-vest awards is valued under the single-option approach and amortized on a straight-line basis, accounting for actual pre-vesting forfeitures as they occur. We utilize the Black-Scholes pricing model in order to determine the fair value of stock-based option awards. The Black-Scholes pricing model requires various highly subjective assumptions including volatility, expected option life, and risk-free interest rate. The assumptions used in calculating the fair value of share-based payment awards represent management's best estimates. These estimates involve inherent uncertainties and the application of management judgment. If factors change and different assumptions are used, our stock-based compensation expense could be materially different in the future.

À Income Taxes À The Company uses the asset and liability method of accounting for income taxes. Deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to differences between the carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. Deferred tax expense or benefit is the result of changes in the deferred tax assets and liabilities. Valuation allowances are established when necessary to reduce deferred tax assets where, based upon the available evidence, management concludes that it is more-likely-than-not that the deferred tax assets will not be realized. Realization of deferred tax assets is also dependent upon future earnings, if any, the timing and amount of which are uncertain.

F-10 À The Company records a liability for the uncertain tax positions taken or expected to be taken on the Company's tax return when it is more-likely-than-not that the tax position might be challenged despite the Company's belief that the tax return positions are fully supportable, and additional taxes will be due as a result. To the extent that the assessment of such tax positions changes, for example, based on the outcome of a tax audit, the change in estimate is recorded in the period in which the determination is made. The provision for income taxes includes the impact of provisions for uncertain tax positions.

À Loss Per Share À Basic net loss per common share is computed by dividing net loss by the weighted average number of common shares outstanding during the period. Diluted net loss per common share is computed by dividing net loss attributable to common stockholders by the weighted average number of common shares outstanding, plus the number of additional common shares that would have been outstanding if the common share equivalents had been issued (computed using the "Converted" method), unless the effect of such issuances would have been anti-dilutive.

À Recently Issued Accounting Pronouncements À From time to time, new accounting pronouncements are issued by the FASB or other standard setting bodies that are adopted by the Company as of the specified effective date. Unless otherwise discussed, we believe that the impact of recently issued standards that are not yet effective will not have a material impact on our financial position or results of operations upon adoption. The Company has evaluated the recently implemented accounting standards and concluded that none currently apply to the Company.

À Note 3. Net Loss per Common Share À The following table sets forth the computation of basic and diluted loss per share (in thousands, except per share data):

	Three Months Ended September 30, 2024	Nine Months Ended September 30, 2024	2023	2024	2023
Numerator:	\$ (5,675)	\$ (6,841)	\$ (17,305)	\$ (20,395)	Less: Series A convertible preferred stock dividends \$ -
(464) Net loss attributable to common stockholders "basic and diluted"	\$ (5,675)	\$ (7,056)	\$ (17,305)	\$ (21,041)	Denominator:
Weighted average shares used in computing net loss per common share "basic and diluted"	93,048	71,588	89,063	64,246	Net loss per common share "basic and diluted"
\$ (0.06)	\$ (0.10)	\$ (0.19)	\$ (0.33)	Net loss per share is based on the weighted average number of the Company's common shares and common share equivalents outstanding during the period.	

F-11 À In periods with a reported net loss, the effect of anti-dilutive stock options, unvested restricted common stock and warrants are excluded and diluted loss per share is equal to basic loss per share. Due to a net loss in the three and nine months ended September 30, 2024 and 2023, there were therefore no dilutive securities and hence basic and diluted loss per share were the same. The following is a summary of the weighted average common stock equivalents for the securities outstanding during the respective periods that have been excluded from the computation of diluted net loss per common share, as their effect would be anti-dilutive (in thousands):

	Three Months Ended September 30, 2024	Nine Months Ended September 30, 2024	2023
Unvested restricted common stock	2,997	1,783	2,997
Total potentially dilutive shares	17,166	20,825	18,417
As all potentially dilutive securities are anti-dilutive as of September 30, 2024 and 2023, diluted			

\$1,536Å Website domain name and trademarkÅ 1,009Å Å 471)Å Å 538Å Å 1,009Å Å 320)Å Å 689Å Technology and licensed patentsÅ 12,731Å Å 4,244)Å Å 8,487Å Å 12,731Å Å 4,244)Å Å 9,851Å TotalÅ \$16,991Å Å (\$7,243)Å \$9,748Å Å \$16,991Å Å \$(4,915)Å \$12,076Å Å F-12 Å The amortization expense of the CompanyÅ™s intangible assets for the three and nine months ended September 30, 2024 and 2023 was approximately \$780 thousand and \$2.3 million, respectively. The Company expects future amortization expense to be the following (in thousands): Å Å AmortizationÅ 2024 (remaining three months)Å \$776Å 2025Å 2,472Å 2026Å 2,021Å 2027Å Å 1,903Å 2028Å Å 1,819Å ThereafterÅ Å 757Å TotalÅ \$9,748Å Å The Company recorded goodwill resulting from the QPhoton Merger, calculated as the difference between the total purchase price and the value of tangible and intangible assets acquired less the liabilities assumed. The Company recorded goodwill of \$55.6 million resulting from the QPhoton Merger. Å The Company considered the intangible assets and goodwill for indicators of impairment as of September 30, 2024 and concluded there were no indicators of impairment at that time. Å Note 6. Property and Equipment Å The CompanyÅ™s property and equipment are primarily located at the CompanyÅ™s leased facilities in Hoboken, NJ and Tempe, AZ and consist of (in thousands): Å Å September 30, 2024Å Å December 31, 2023Å Computer and lab equipmentÅ \$5,899Å Å 2,999Å Network equipmentÅ 29Å Å 29Å Furniture and fixturesÅ 32Å Å 32Å SoftwareÅ 77Å Å 49Å Leasehold improvementsÅ 275Å Å 33Å Total cost of property and equipmentÅ 6,312Å Å 3,142Å Accumulated depreciationÅ 486)Å Å (272) Property and equipment, netÅ \$5,826Å Å \$2,870Å Å The Company recorded depreciation expense of \$75 thousand and \$76 thousand during the three months ended September 30, 2024 and 2023, respectively, and \$214 thousand and \$203 thousand during the nine months ended September 30, 2024 and 2023, respectively, using useful lives of the CompanyÅ™s long-lived assets as follows: Å Å Estimated Useful Life (Years) Computer and laboratory equipmentÅ 5 Network equipmentÅ 4 Furniture and fixturesÅ 7 SoftwareÅ 3 Leasehold improvementsÅ Lessor of lease term or 5 Å Maintenance and repairs are charged to operations when incurred. When property and equipment are sold or otherwise disposed, the asset account and related accumulated depreciation and amortization accounts are relieved, and any gain or loss is included in other income or expense. Å F-13 Å Note 7. Operating Leases Å As of September 30, 2024, the Company has use of space in three different locations, Hoboken, NJ, Tempe, AZ, and Arlington, VA, under lease or membership agreements, which expire at various dates through November 30, 2028. The CompanyÅ™s leases do not provide an implicit rate, and the rates implicit in our leases are not readily determinable. Therefore, the Company uses its incremental borrowing rate as the discount rate when measuring operating lease assets and liabilities. The incremental borrowing rate represents an estimate of the interest rate the Company would incur at lease commencement to borrow an amount equal to the lease payments on a collateralized basis over the term of a lease. The CompanyÅ™s leases all contain options to extend or renew the lease or membership term. Å The table below reconciles the undiscounted future minimum lease payments under these operating leases to the total operating lease liabilities recognized on the consolidated balance sheet as of September 30, 2024 (in thousands): Å YearÅ Lease Payments DueÅ 2024 (remaining three months)Å \$88Å 2025Å Å 437Å 2026Å Å 591Å 2027Å Å 515Å 2028Å Å 212Å Total minimum paymentsÅ Å 1,843Å Less: imputed interestÅ Å (161) Present value of operating lease liabilitiesÅ Å 1,682Å Less: current portion included in other current liabilitiesÅ Å (385) Long-term operating lease liabilitiesÅ \$1,297Å Å Other information related to operating lease liabilities consists of the following (in thousands): Å Å Three Months Ended September 30, Å Å Nine Months Ended September 30, Å Å 2024Å Å 2023Å Å 2024Å Å 2023Å Cash paid for operating lease liabilities (in thousands)Å \$117Å Å \$92Å Å \$274Å Å \$214Å Weighted average remaining lease term in yearsÅ Å 3.5Å Å 3.9Å Å 3.5Å Å 3.9Å Weighted average discount rateÅ 10%Å 10%Å 10%Å 10% F-14 Å Note 8. Financial Liabilities Å The Company has the following amounts related to financial and derivative liabilities at the dates indicated (in thousands): Å Å September 30, 2024Å Å December 31, 2023Å Remaining loan balancesÅ \$8,250Å Å \$2,063Å Remaining unamortized debt issuance costsÅ Å (1,736)Å Å (138) Financial liabilities, net of issuance costsÅ \$6,514Å Å \$1,925Å Å Å Å Å Derivative liabilityÅ \$666Å Å \$-Å Å Additionally, the Company has accrued interest payable of \$122 thousand and \$14 thousand as of September 30, 2024 and December 31, 2023, respectively, which was included in accrued expenses. Å Secured Promissory Note Å On August 6, 2024, the Company entered into a Securities Purchase Agreement (the ÅSecured SPAÅ) with Streeterville Capital, LLC (ÅStreetervilleÅ), pursuant to which the Company issued and sold to Streeterville a Secured Convertible Promissory Note (the ÅStreeterville Convertible NoteÅ) in the original principal amount of \$8.25 million. The principal amount includes an original issue discount of \$750 thousand. Streeterville paid \$7.5 million in cash for the Streeterville Convertible Note. The Streeterville Convertible Note accrues interest at a rate of 10% per annum and has a maturity date of February 6, 2026, unless earlier prepaid, redeemed or accelerated in accordance with its terms prior to such date. The Company intends to use the net proceeds from the sale of the Streeterville Convertible Note primarily for general working capital purposes, including for (i) operations as the Company increases its sales and marketing efforts; (ii) capital expenditures in outfitting its chip fabrication facility in Tempe, AZ; and (iii) for any other planned or unplanned expenditures that might arise in support of the CompanyÅ™s business plan. Ascendant Capital Markets, LLC served as the placement agent on the transaction and received a fee of \$450 thousand, and the Company recognized \$55 thousand in other issuance costs, primarily for legal services. Å The Streeterville Convertible Note is secured by all of the CompanyÅ™s tangible and intangible assets, including intellectual property, pursuant to that certain Security Agreement (the ÅSecurity AgreementÅ) and IP Security Agreement (the ÅIP Security AgreementÅ), each entered into with Streeterville on August 6, 2024. In addition, the CompanyÅ™s wholly-owned subsidiaries, QPhoton, LLC, a Delaware limited liability company, Qubittech International, Inc., a Delaware corporation, Qubittech, Inc., a Delaware corporation, and QI Solutions, Inc., a Delaware corporation (collectively, the ÅGuarantorsÅ), provided a guarantee (the ÅGuarantyÅ), dated as of August 6, 2024, of the CompanyÅ™s obligations to Streeterville under the Streeterville Convertible Note and the other transaction documents. Å Beginning on February 6, 2025, Streeterville has the right to redeem up to \$750,000 of the Streeterville Convertible Note per calendar month. The Company may pay such redemption amounts in cash, by converting such applicable redemption amount into shares of common stock at the applicable Conversion Price (as defined below) at such time, or in any combination of cash and shares of common stock, provided that the Company is required to pay any redemption amounts in cash under certain circumstances set forth in the Streeterville Convertible Note and that the payment of any redemption amount or portion thereof in cash is subject to an 10% premium. Å F-15 Å Beginning on the earlier of: (a) February 6, 2025, and (b) the effectiveness of a registration statement registering the Conversion Shares (as defined below), Streeterville may convert all or any portion of the outstanding balance of the Streeterville Convertible Note into shares (ÅConversion SharesÅ) of the CompanyÅ™s common stock on any trading day (and the following trading day) on which any intraday trading bid price of the CompanyÅ™s common stock is 8% greater than the closing trade price on the previous trading day or at any time following an event of default, at a conversion price equal to 92% of the average of the two lowest daily volume weighted average prices of the CompanyÅ™s common stock during the eight trading day period prior to the respective conversion date (the ÅConversion PriceÅ), subject to anti-dilution adjustments and provided that Streeterville may not request any conversion of the Streeterville Convertible Note to the extent that such conversion would cause Streeterville (together with its affiliates) to beneficially own shares of Common Stock exceeding 4.99% (or 9.99% if the Market Capitalization, as defined below, is less than \$10Å million) of the number of shares of Common Stock outstanding on such date. For the ownership limitation, ÅMarket CapitalizationÅ means a number equal to (a)Å the average volume weighted average price of the CompanyÅ™s common stock for the immediately preceding 15Å trading days, multiplied by (b)Å the aggregate number of outstanding shares of common stock as reported on CompanyÅ™s most recently filed FormÅ 10-QÅ or FormÅ 10-KÅ or as reported to Nasdaq in a subsequent shares outstanding change form. Absent an uncured event of default, as set forth in the Streeterville Convertible Note, Streeterville agreed to limit its aggregate sales of Conversion Shares on the open market in any given calendar week to 10% of the weekly trading volume of the CompanyÅ™s common stock on our principal trading market (Nasdaq) for such week. Upon evaluation, the Company determined that the conversion features inherent in the Streeterville Convertible Note meet the definition of a derivative liability (the ÅStreeterville Derivative LiabilityÅ) covered under the ASC topic 815, Derivatives and Hedging. Applying ASC 820, Fair Value Measurement, the initial fair value of the Streeterville Derivative Liability is \$666 thousand, which will be mark-to-market adjusted on a quarterly basis and accreted as interest expense using the effective interest rate method while the Streeterville Convertible Note is outstanding. Å In addition to the beneficial ownership limitations provided in the Streeterville Convertible Note, the sum of the number of shares of the CompanyÅ™s common stock that the Company may issue to Streeterville under the Secured SPA, the Streeterville Convertible Note and any related documents without stockholder approval may not exceed the number of shares it could so issue pursuant to Nasdaq Listing RuleÅ 5635(d)Å (the ÅShare CapÅ), unless shareholder approval (the ÅApprovalÅ) to exceed such limitation is obtained by the Company. The Company is required, under the Secured SPA to obtain the Approval by FebruaryÅ 2, 2025. If the Company does not obtain the Approval by such date, it must continue seeking the Approval every 90 days until the Approval is obtained. If the total cumulative number of Conversion Shares that the Company issues to Streeterville equals the Share Cap and the Company has not obtained the Approval, any remaining outstanding balance of the Streeterville Convertible Note must be repaid in cash. Å The Streeterville Convertible Note provides for customary events of default (each as defined in the Streeterville Convertible Note, an ÅEvent of DefaultÅ), including, among other things, the event of nonpayment of principal, interest, fees or other amounts, a representation or warranty proving to have been incorrect when made, failure to perform or observe covenants within a specified cure period, a cross-default to certain other indebtedness and material agreements of the Company, and the occurrence of a bankruptcy, insolvency or similar event affecting the Company. Upon the occurrence of an Event of Default that is deemed a ÅMajor Trigger EventÅ as defined in the Streeterville Convertible Note, Streeterville may increase the outstanding balance of the Streeterville Convertible Note by 10%, and upon the occurrence of an Event of Default that is deemed a ÅMinor Trigger EventÅ as defined in the Streeterville Convertible Note, Streeterville may increase the outstanding balance of the Streeterville Convertible Note by 5%. Streeterville can exercise its right to increase the outstanding balance upon a Major or Minor Trigger Event three times each. Upon the occurrence of an Event of Default, Streeterville may declare all amounts owed under the Streeterville Convertible Note immediately due and payable. In addition, upon the occurrence of an Event of Default, upon the election of Streeterville, interest shall begin accruing on the outstanding balance of the Streeterville Convertible Note from the date of the Event of Default equal to the lesser of 15% per annum and the maximum rate allowable under law. Å Unsecured Promissory Note Å On September 23, 2022, the Company entered into a Note Purchase Agreement (the ÅStreeterville Unsecured NPAÅ) with Streeterville, pursuant to which Streeterville purchased an unsecured promissory note (the ÅStreeterville Unsecured NoteÅ) in the initial principal amount of \$8.25 million. The Note bore interest at 10% per annum, had a maturity date of 18 months from the date of its issuance and carried an original issue discount of \$750 thousand, which is included in the principal balance of the Streeterville Unsecured Note. Å Beginning on March 23, 2023, Streeterville had the right to redeem up to \$750 thousand of the outstanding balance of the Streeterville Unsecured Note per month (ÅRedemption AmountÅ) by providing written notice to the Company (ÅRedemption NoticeÅ). The Company paid the applicable Redemption Amount in cash to Streeterville within three trading days of the CompanyÅ™s receipt of any such Redemption Notice. As of September 30, 2024, Streeterville has redeemed the full principal amount of the Streeterville Unsecured Note. There was an outstanding balance of \$1.9 million as of December 31, 2023. As of September 30, 2024, there was no outstanding balance and the Company has no further obligations with respect to the Streeterville Unsecured NPA or Streeterville Unsecured Note. Å F-16 Å For a full discussion of the terms and conditions of the Streeterville Unsecured Note, see the CompanyÅ™s Amendment No. 1 to its Annual Report on Form 10-K for the year ended December 31, 2023. Å Note 9. Loan Receivable Å On May 16, 2023, the Company entered into a Summary of Proposed Terms (the ÅLetter of IntentÅ) with millionways, Inc. (ÅmillionwaysÅ) to provide bridge loans to millionways and enter into due diligence to acquire up to 100% of the AI firm. On June 6, 2023, the Company entered into a Note Purchase Agreement (the ÅMW AgreementÅ) with millionways, pursuant to which the Company agreed to purchase from millionways up to three unsecured promissory notes (each, a ÅMW NoteÅ), in an aggregate principal amount of up to \$2.0 million, subject to the terms and conditions of the MW Agreement. Also on June 6, 2023, pursuant to the terms of the MW Agreement, the Company purchased the MW Notes from millionways and loaned an aggregate principal amount of \$500 thousand to millionways. Å The MW Agreement contains customary representations and warranties by millionways and the Company, as well as a Åmost favored nationsÅ provision for the benefit of the Company. The MW Notes issued under the MW Agreement, including the MW Notes issued on June 6, 2023, provide that the indebtedness evidenced by the applicable MW Note bears simple interest at the rate of 10% per annum (or 15% per annum during the occurrence of an event of default, as defined in the MW Notes), and becomes due and payable in full on the earlier of (i) May 16, 2024, (ii) a change of control (as defined in the MW Notes) of millionways, (iii) dollar-for-dollar prepayment for additional capital received through any vehicle from a third party or (iv) an event of default. Å The Company reserved approximately \$306 thousand of the outstanding \$613 thousand receivable as uncollectible based on credit risk in the unaudited condensed consolidated financial statements as of September 30, 2024, and \$279 thousand of the outstanding \$558 thousand receivable as of December 31, 2023. Å Note 10. ContingenciesÅ Indemnification Arrangements Å We enter into standard indemnification arrangements in our ordinary course of business. Pursuant to these arrangements, we indemnify, hold harmless, and agree to reimburse the indemnified parties for losses suffered or incurred by the indemnified parties (generally our business partners or customers) in connection with any trade secret, copyright, patent or other intellectual property infringement claim by any third-party with respect to our products. The term of these indemnification agreements is generally perpetual any time after the execution of the agreement. The maximum potential amount of future payments we could be required to make under these agreements is not determinable. We have never incurred costs to defend lawsuits or settle claims related to these indemnification agreements. As a result, we believe the estimated fair value of these agreements is minimal. Å We have entered into indemnification agreements with our directors and officers that may require us to indemnify our directors and officers against liabilities that may arise by reason of their status or service as directors or officers, other than liabilities arising from willful misconduct of a culpable nature. These agreements also require us to advance their expenses incurred as a result of any proceeding against them as to which they could be indemnified and to make good faith determination whether or not it is practicable for us to obtain directors and officers insurance. We currently have directors and officers liability insurance. Å Legal Proceedings Å From time to time, we may be involved in legal proceedings arising in the ordinary course of business. In general, management believes that ordinary course of business matters will not have a material adverse effect on our consolidated financial position or results of operations and are adequately covered by our liability insurance. However, it is possible that condensed consolidated cash flows or results of operations could be materially affected in any particular period by the unfavorable resolution of one of more of these contingencies or because of the diversion of managementÅ™s attention and the incurrence of significant expenses. Å F-17 Å See Part II, Item 1, Legal Proceedings, in this Form 10-Q for additional details on the status of motions on the following proceedings. Å BV Advisory v. QCi Breach Lawsuit Å At the time of the QPhoton Merger in June 2022, QPhoton had an outstanding balance of principal and interest due to BV Advisory Partners, LLC (ÅBV AdvisoryÅ) based on a Note Purchase Agreement that QPhoton had entered into with BV Advisory on March 1, 2021. Accordingly, the Company has recorded an estimated payable (the ÅBV Advisory PayableÅ), recognized as other current liabilities on the unaudited condensed consolidated financial statements, based on best available information in the amount of \$536 thousand as of September 30, 2024 and December 31, 2023. Å On August 16, 2022, BV Advisory filed a complaint in the Court of Chancery of the State of Delaware (the ÅDE Chancery CourtÅ) naming the Company and certain of its directors and officers (among others) as defendants seeking, among other relief, monetary damages. The Company believes that BV AdvisoryÅ™s claims have no merit and intends to defend itself vigorously. BV AdvisoryÅ™s claims are not covered by the CompanyÅ™s liability insurance, nor does the Company believe it is necessary to accrue an amount in addition to the BV Advisory Payable at this time. Å BV Advisory v. QCi Appraisal Action Å BV Advisory was purportedly a shareholder of QPhoton, Inc., the predecessor in interest to QPhoton, LLC, a wholly owned subsidiary of the Company (both referred to as ÅQPhotonÅ in this Legal Proceedings discussion). BV Advisory rejected the Merger Consideration (as defined below) and on October 13, 2022, commenced litigation by filing a petition in the DE Chancery Court seeking appraisal rights on the shares of QPhoton it allegedly owned (which shares represented 10% of the shares of QPhoton outstanding immediately prior to the CompanyÅ™s acquisition of QPhoton). The Company included BV AdvisoryÅ™s purported ownership of QPhoton in the purchase price accounting for the QPhoton Merger. Å The CompanyÅ™s total purchase price of QPhoton was approximately \$71.0 million, or \$69.9 million net of cash acquired, consisting of Company common stock, Series B Preferred Stock and QPhoton Warrants (as defined below). While the total shares of the CompanyÅ™s common stock on an as-converted basis offered in the QPhoton Merger was 36,600,823 (the ÅMerger ConsiderationÅ), the fair market valuation contemplated 31,299,417 of the shares, which assumed full conversion of the 2,377,028 shares of Series B Preferred Stock to common stock at the 10:1 ratio, and that only 1,726,931 of the warrants to purchase up to 7,028,337 shares of the CompanyÅ™s common stock (the ÅQPhoton WarrantsÅ) would eventually be exercised (specifically only the QPhoton Warrants for which the associated Company options and/or warrants had an exercise price at or below \$2.27 at the time of the QPhoton Merger). Å Accordingly, as of September 30, 2024 and 2023, the Company has neither issued 2,957,251 shares of the CompanyÅ™s common stock on an as converted basis (the ÅUnissued QPhoton SharesÅ) nor 702,834 warrants to purchase shares of the CompanyÅ™s common stock (the ÅUnissued QPhoton WarrantsÅ) that were

included in the Merger Consideration. The Unissued QPhoton Shares are included in the statement of stockholder's equity as of September 30, 2024 and 2023, and the Unissued QPhoton Warrants have no carrying value as a liability on the Company's condensed consolidated balance sheet as of September 30, 2024. A Note 11. Capital Stock A Authorized Classes of Stock A As of September 30, 2024, the Company's Board of Directors has authorized two classes of preferred stock. The Board has authorized 1,550,000 shares of preferred stock as Series A preferred stock, par value \$0.0001 per share, of which 993,306 and 1,490,004 shares, respectively, are issued and outstanding as of September 30, 2024 and December 31, 2023. The Board has also authorized 3,079,864 shares of preferred stock as Series B preferred stock, par value \$0.0001 per share, none of which are issued and outstanding as of September 30, 2024 and December 31, 2023. A F-18 A Series A Convertible Preferred Offering A From November 10, 2021 through November 17, 2021, the Company conducted a private placement offering (the "Private Placement") pursuant to securities purchase agreements with 7 accredited investors (the "Series A Investors"), whereby the Series A Investors purchased from the Company an aggregate of 1,545,459 shares of the Company's newly created Series A convertible preferred stock, par value \$0.0001 per share (the "Series A Preferred Stock") and warrants to purchase 1,545,459 shares of the Company's common stock (the "Preferred Warrants") for an aggregate purchase price of \$8.5 million. The Private Placement was completed and closed to further investment on November 17, 2021. A The Series A Preferred Stock ranks senior to common stock with respect to the payment of dividends and liquidation rights. Each holder of Series A Preferred Stock is entitled to receive, with respect to each share of Series A Preferred Stock then outstanding and held by such holder, dividends at the rate of ten percent (10%) per annum (the "Preferred Dividends"). The Company is obligated to pay the Preferred Dividends quarterly, in arrears, within fifteen (15) days of the end of each quarter. The Company has the option to pay the Preferred Dividends in cash or in common stock, at a price per share of common stock equal to the average of the closing sale price of the common stock for the five (5) trading days preceding the applicable dividend payment date. The Preferred Dividends are accrued monthly, but not compounded, and are recorded as interest expense, because the Preferred Dividends are mandatory and not declared at the discretion of the Board of Directors. A The number of shares of the Company's common stock issuable upon conversion of any share of Series A Preferred Stock shall be determined by dividing (x) the Conversion Amount of such share of Series A Preferred Stock by (y) the Conversion Price. "Conversion Amount" means, with respect to each share of Series A Preferred Stock, as of the applicable date of determination, the sum of (1) the stated value thereof plus (2) any accrued dividends. "Conversion Price" means, with respect to each share of Series A Preferred Stock, as of any optional conversion date, Mandatory Conversion Date or other date of determination, \$5.50, subject to adjustment for stock splits, dividends, recapitalizations and similar corporate events. A The Preferred Warrants were two-year warrants to purchase shares of the Company's common stock at an exercise price of \$7.00 per share, subject to adjustment, were exercisable at any time on or after the date that was six months following the issuance date, and provided for cashless exercise in the event the underlying shares of the Company's common stock are not registered. As of December 31, 2023, all of the Preferred Warrants had expired unexercised. A In connection with the Purchase Agreement, the Company and the Series A Investors entered into a registration rights agreement (the "Registration Rights Agreement") pursuant to which the Company agreed to file a registration statement to register the shares of the Company's common stock underlying the Series A Preferred Stock and warrants within 180 days. Pursuant to the Registration Rights Agreement, the Series A Investors received certain rights, including but not limited to piggyback registration rights, providing that the holder be given notice of any proposed registration of securities by the Company, and requiring that the Company register all or any portion of the registrable securities that the holders request to be registered, in each case, subject to the terms and conditions of the Registration Rights Agreement. On April 27, 2022 the Company filed a Resale Form S-3 as required by the Registration Rights Agreement. The Resale Form S-3 went effective on June 2, 2022. A On June 13, 2022, one of the Series A Investors, Falcon Capital Partners, converted 45,455 shares of Series A Preferred Stock into 47,728 shares of the Company's common stock. A On February 9, 2023, one of the Series A Investors, Greenfield Children, LLC, converted 10,000 shares of Series A Preferred Stock plus accrued dividends into 11,096 shares of the Company's common stock. A F-19 A On March 19, 2024, the Company entered into a Redemption and Waiver Agreement (the "Series A Redemption Agreement") with the current holders (the "Series A Holders") of its Series A Preferred Stock. Accordingly, \$8.125 million of additional paid in capital was reclassified from shareholders' equity to mezzanine equity (the "Mezzanine Equity") on the Company's condensed consolidated balance sheet as of September 30, 2024, in accordance with Accounting Series Release No. 268, Presentation in Financial Statements of Redeemable Preferred Stocks. The Mezzanine Equity is valued at the date of the Private Placement issuance. Pursuant to the Series A Redemption Agreement, the Company agreed to redeem all outstanding shares of the Series A Preferred Stock for an aggregate cash purchase price of \$8,195,000, or \$5.50 per share, at its sole discretion, in 18 monthly payments (each a "Monthly Redemption Threshold Payment"), which may be accelerated at the Company's sole discretion. In addition, the Series A Holders agreed to waive (the "Waivers"), on a month-by-month basis following each monthly payment, certain rights granted to them in (i) the Preferred Stock Certificate of Designation (the "Preferred Stock COD"), including for the accrual and payment of accrued and future dividends; and (ii) the Preferred Stock Securities Purchase Agreement (the "Preferred Stock SPA"). In the event the Company opts to not make a Monthly Redemption Threshold payment, the Waivers are forfeited and the terms revert to those detailed in the Preferred Stock COD and Preferred Stock SPA. During the three and nine months ended September 30, 2024, the Company redeemed 248,349 and 496,698 shares of Series A Preferred Stock, respectively, for approximately \$1.4 million and \$2.7 million, in cash paid to the Series A Holders, respectively. As of September 30, 2024 and December 31, 2023, there were 993,306 and 1,490,004 shares of Series A Preferred Stock, respectively, issued and outstanding. A At-the-Market-Facility A On October 28, 2022, the Company filed a shelf registration statement on Form S-3 under the Securities Act of 1933, as amended, which was declared effective on November 8, 2022 (the "2022 Shelf"). Under the 2022 Shelf at the time of effectiveness, the Company had the ability to raise up to \$100 million by selling common stock, preferred stock, debt securities, warrants and units. On December 5, 2022, the Company entered into an At-the-Market Issuance Sales Agreement (the "ATM Agreement") with Ascendant Capital Markets, LLC (the "Ascendant") whereby the Company may, but is not obligated to, offer and sell, from time to time, shares of its common stock (the "ATM Facility"), and incorporated the ATM Agreement into the 2022 Shelf by amendment that was declared effective January 10, 2023. On August 17, 2023, the Company and Ascendant entered into an amendment (the "ATM Amendment") to the ATM Agreement, increasing the amount of common stock that the Company may offer and sell via the ATM Facility from \$25 million to \$50 million (the "ATM Upsize"). Following the ATM Upsize, the Company filed a prospectus supplement, dated August 18, 2023, with the Securities and Exchange Commission and became able to offer and sell shares of the Company's common stock having an aggregate offering price of up to \$27,362,717 via the ATM Facility. A The Company intends to use any net proceeds from the sale of securities under the ATM Facility for operations and for other general corporate purposes, including, but not limited to, capital expenditures, including our AZ Chips Facility, as defined in Item 2, Management's Discussion and Analysis of Financial Condition and Results of Operations, payments under the Series A Redemption Agreement and general working capital. The Company did not sell any shares through the ATM Facility for the three months ended September 30, 2024, and for the nine months ended September 30, 2024, the Company sold 16,604,770 shares of the Company's common stock through the ATM Facility at an average price of \$0.88, from which the Company received net proceeds of \$14.6 million. A Warrants A The table below summarizes the warrants outstanding as of September 30, 2024 (in thousands, except exercise price data): A Issuance Date A Expiration Date A Exercise Price A Issued A Exercised A Forfeited / Canceled A Warrants Outstanding A August 18, 2020 A August 18, 2025 A \$2.00 A \$1.71 A \$1.50 A A A A A 21 A November 15, 2021 A November 15, 2023 A \$7.00 A \$1.54 A A A A A (1.54) A A A June 16, 2022 A May 9, 2027 A \$0.0001 A A 6.325 A A A A (4.148) A A 2.177 A A In connection with a restricted stock units offering in June 2020, the Company issued warrants in August 2020 to purchase 171,000 shares of the Company's common stock, at an exercise price of \$2.00. Those warrants are exercisable for five years from the date of issuance. A In connection with the offering of Series A Preferred Stock in November 2021, the Company issued warrants to purchase 1,545,459 shares of the Company's common stock at an exercise price of \$7.00. Those warrants were exercisable for two years from the date of issuance and have now expired. A F-20 A In connection with the QPhoton Merger on June 16, 2022, the Company issued 6.3 million warrants to purchase shares of the Company's common stock at an exercise price of \$0.0001. Those warrants are exercisable when and if stock options and warrants issued by the Company and outstanding as of June 15, 2022 (the "Underlying Options") are exercised. As of September 30, 2024, none of the QPhoton Warrants linked to the outstanding Underlying Options are expected to be exercised as the exercise prices of the Underlying Options are above the closing stock price as of September 30, 2024. The 6.3 million issued warrants represent a portion of the 7.0 million warrants included in the Merger Consideration, having been received by two QPhoton shareholders. A third alleged shareholder rejected the Merger Consideration and commenced litigation, and to date that litigation has not been resolved and the 702,834 warrants have not been issued. See Part II, Item 1, Legal Proceedings, for additional information on the status of the litigation. A Accordingly, as of September 30, 2024, of the 6.3 million QPhoton Warrants issued, approximately 66% have been forfeited because the corresponding Underlying Options had expired or been forfeited. Further, as discussed in Note 2, Significant Accounting Policies, Fair Value of Financial Instruments, the QPhoton Warrants issued on June 16, 2022, are considered Level 3 liabilities for fair value measurement on the valuation hierarchy. Accordingly, the Company recognized mark-to-market gains of \$13 thousand and \$384 thousand during the three and nine months ended September 30, 2023, respectively, with an ending balance of \$144 thousand as of September 30, 2023. As of September 30, 2024 and December 31, 2023, the QPhoton Warrants have no carrying value as a liability on the Company's condensed consolidated balance sheet and there was no mark-to-market adjustment recognized during the nine months ended September 30, 2024. A Note 12. Stock-based Compensation A Incentive Plans A The Company's 2019 Equity and Incentive Plan, as amended in 2021 (the "2019 Plan") enabled the Company to grant incentive stock options or nonqualified stock options and other equity awards to employees, directors and consultants of the Company up to a total of 3 million shares of the Company's common stock. All 3 million shares available for issue under the 2019 Plan have been issued. A On July 5, 2022, the Board of Directors adopted the Company's 2022 Equity and Incentive Plan (the "2022 Plan") which provides for the issuance of up to 16 million shares of the Company's common stock. The 2022 Plan was approved by a majority of the shareholders in September 2022. Per the 2022 Plan, the 2022 Plan reserves increased automatically by 1 million shares on January 1, 2023 and January 1, 2024, providing for a total issuance of up to 18 million shares of the Company's common stock. As of September 30, 2024, a total of 12.4 million shares and options were issued and outstanding. A Options A The following table summarizes the Company's option activity for the nine months ended September 30, 2024 (in thousands, except exercise price and contractual life data): A A Number Outstanding A Weighted Average Exercise Price per Share A Weighted Average Remaining Contractual Life (Years) A Balance as of January 1, 2024 A 13,843 A \$2.64 A A 3.7 A Granted A 250 A A 1.01 A A 5.0 A Exercised A A A A A A A Forfeited A (1,724) A A 4.11 A A A Balance as of September 30, 2024 A 12,369 A \$2.41 A A 3.1 A Vested and exercisable as of September 30, 2024 A 8,375 A \$2.87 A A 2.8 A A F-21 A The following table presents the assumptions used in the Black-Scholes option-pricing model to determine the grant-date fair value of stock options granted during the three and nine months ended September 30, 2024 and 2023: A A Three Months Ended September 30, A Nine Months Ended September 30, A A 2024 A 2023 A A 2024 A 2023 A Exercise price A \$1.00 A \$1.12 A \$1.35 A \$1.35 A \$1.00 A \$1.12 A \$1.35 A 1.84 A Risk-free interest rate A 5.2 A 5.2 A A 4.8 A 4.8 A A 5.2 A 5.2 A A 4.7 A 4.8 A Expected volatility A 90.2 A 104.6 A A 134.5 A 134.5 A A 93.2 A 104.6 A A 122.2 A 136.9 A Expected dividend yield A 0 A 0 A A 0 A 0 A A 0 A 0 A Expected life of options (in years) A 5.0 A 5.0 A A 5.0 A 5.0 A A 5.0 A 5.0 A A The following table summarizes the exercise price range as of September 30, 2024 (in thousands, except exercise price data): A Exercise Price A Outstanding Options A Exercisable Options A \$0.00 A \$1.00 A A 105 A A 10 A \$1.00 A \$2.00 A A 5,348 A A 1,794 A \$2.00 A \$3.00 A A 5,845 A A 5,500 A \$3.00 A \$6.00 A A 38 A A 38 A \$6.00 A \$8.00 A A 683 A A 683 A \$8.00 A \$12.00 A A 350 A A 350 A A

ensured by the company during the quarter then ended, for which it also received payment, pursuant to the delivery of the relevant quarterly report. As of September 30, 2023, the Company has begun to commercialize some of the licensed technology, though has not recognized any related revenue and hence has not incurred any royalty expenses payable to the Stevens Institute. A F-23 A Note 15. Restatement of Previously Issued Financial Statements A Subsequent to the issuance of our Annual Report on Form 10-K for the year ended December 31, 2023, and our subsequent retention of BPM LLP to replace BF Borgers CPA PC as our independent registered public accounting firm, management became aware of various adjustments to be recorded to our consolidated financial statements. Accordingly, on September 11, 2024, we filed Amendment 1 to our Annual Report on Form 10-K for the year ended December 31, 2023 (the "2023 Amendment"), amending our consolidated balance sheets as of December 31, 2023 and 2022, and amending our consolidated statements of operations, our consolidated statements of stockholders' equity, and our consolidated statements of cash flows for the years ended December 31, 2023 and 2022, primarily with regard to the purchase accounting of the QPhoton Merger, stock-based compensation accounting, financing costs, and other matters. The restated consolidated financial statements in the 2023 Amendment also reflect the correction of certain previously-identified errors and out-of-period adjustments that were deemed immaterial to the annual or interim period in which they were recorded and have been restated in the 2023 Amendment to properly reflect the corrections in the appropriate periods. A In this Quarterly Report on Form 10-Q for the nine months ended September 30, 2024, we amended our consolidated statements of operations, our consolidated statements of stockholders' equity, and our consolidated statements of cash flows for the nine months ended September 30, 2023, which restate and revise items in line with the disclosures and reclassifications discussed in the 2023 Amendment. The aggregate impact of these errors on our condensed consolidated statements of operations for the three and nine months ended September 30, 2023, is a decrease in net loss of approximately \$1.4 million and \$1.0 million, respectively. The estimated aggregate impact of these errors on the Company's condensed consolidated balance sheet for the nine months ended September 30, 2023, is (i) decreased intangible and goodwill assets of \$8.6 million; (ii) materially unchanged and increased liabilities of approximately \$500 thousand; and (iii) decreased stockholders' equity of approximately \$9.1 million. A Note 16. Subsequent Events A In October and November 2024, the Company redeemed 165,566 shares of Series A Preferred Stock for \$910 thousand. As of November 4, 2024, the Company has redeemed 662,264 shares of Series A Preferred Stock for a cumulative redemption amount of \$3.6 million in cash paid to the Series A Holders; there are 827,740 shares of Series A Preferred Stock issued and outstanding. A In October 2024, the Company resumed use of its ATM Facility and sold approximately 3.9 million shares of common stock as of November 4, 2024. The Company intends to use the net proceeds for our operations and for other general corporate purposes, including, but not limited to, capital expenditures, including our AZ Chips Facility, as defined in Item 2, Management's Discussion and Analysis of Financial Condition and Results of Operations, payments under the Series A Redemption Agreement and general working capital. As of November 4, 2023, the Company has approximately \$55 million available under the 2022 Shelf and \$5 million available under the ATM Agreement, as amended. A There are no other events of a subsequent nature that in management's opinion are reportable. A F-24 A Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations A This quarterly report on Form 10-Q and other reports filed Quantum Computing, Inc. (the "Company," "QCI," "we," "our," and "us") from time to time with the U.S. Securities and Exchange Commission (the "SEC") contain or may contain forward-looking statements and information that are based upon beliefs of, and information currently available to, the Company's management as well as estimates and assumptions made by the Company's management. A Readers are cautioned not to place undue reliance on these forward-looking statements, which are only predictions and speak only as of the date hereof. A When used in the filings, the words "anticipate," "believe," "estimate," "expect," "forecast," "intend," "plan," or the negative of these terms and similar expressions as they relate to the Company or the Company's management identify forward-looking statements. A Such statements reflect the current view of the Company with respect to future events and are subject to risks, uncertainties, assumptions, and other factors, including the risks contained in the Risk Factors section of the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2023, relating to the Company's industry, the Company's operations and results of operations, and any businesses that the Company may acquire. A Should one or more of these risks or uncertainties materialize, or should the underlying assumptions prove incorrect, actual results may differ significantly from those anticipated, believed, estimated, expected, intended, or planned. A Although the Company believes that the expectations reflected in the forward-looking statements are reasonable, the Company cannot guarantee future results, levels of activity, performance, or achievements. Except as required by applicable law, including the securities laws of the United States, the Company does not intend to update any of the forward-looking statements to conform these statements to actual results. A Our unaudited condensed consolidated financial statements are prepared in accordance with accounting principles generally accepted in the United States ("GAAP"). These accounting principles require us to make certain estimates, judgments and assumptions. We believe that the estimates, judgments and assumptions upon which we rely are reasonable based upon information available to us at the time that these estimates, judgments and assumptions are made. These estimates, judgments and assumptions can affect the reported amounts of assets and liabilities as of the date of the unaudited condensed consolidated financial statements as well as the reported amounts of revenues and expenses during the periods presented. Our financial statements would be affected to the extent there are material differences between these estimates and actual results. In many cases, the accounting treatment of a particular transaction is specifically dictated by GAAP and does not require management's judgment in its application. There are also areas in which management's judgment in selecting any available alternative would not produce a materially different result. The following discussion should be read in conjunction with our financial statements and notes thereto appearing elsewhere in this report. A As discussed in Note 15, Restatement of Previously Issued Financial Statements, in the accompanying notes to our unaudited condensed consolidated financial statements, we have restated our previously-issued consolidated financial statements as of and for the year ended December 31, 2023; accordingly, the following has been prepared giving effect to such restatement. A Overview A QCI is a development stage company. Our strategy is to create a range of accessible and affordable quantum machines and photonics chips for use by commercial and government markets. We have developed and continue to primarily develop quantum and photonics products for high-performance computing applications based on patented and proprietary technology. Our technology is central to our strategy because we believe that it enables us to leverage the advantages of size, weight, power and cost (over competing cryogenic products) to drive market adoption and volume of sales. Specifically, our products are designed to operate at room temperature and at very low power levels at an affordable cost. A QCI's core technology is Entropy Quantum Computing ("EQC"). EQC is a patent pending methodology that utilizes the environment to drive controlled energy loss in a photonic architecture. The Company believes that EQC's small rack-mountable size and low-energy consumption provides a substantial competitive edge as compared to superconducting, cryogenic quantum systems offered by competitors that are also designed to solve optimization problems. In addition to our photonic computing platform, we have leveraged QCI's core technology to demonstrate powerful quantum sensing use cases in LIDAR (Light Detection and Ranging), reservoir computing (a form of neural network that can be used in machine learning applications) and quantum cyber authentication (a method for highly secure communication within a network). Several of these important technologies are already in early stages of commercialization. A 1 A Our longer-term product development plan is to migrate product designs based on discrete components to a set of optical integrated circuits built on wafers using a crystalline material called lithium niobate ("Thin Film Lithium Niobate" or "TFLN"). The Company believes that TFLN is an excellent material for design and implementation of optical integrated circuits ("TFLN Chips") suitable for our quantum computing and sensing products because it is crystal based and hence can have optical waveguides directly etched into the material. QCI possesses strong domain experience and intellectual property in TFLN design and chip fabrication and has completed initial production of several specialty devices such as electro-optical modulators ("EOMs"). TFLN EOMs have the advantages of large bandwidth, low power consumption, and small size. The Company has begun buildout of a state-of-the-art TFLN chip manufacturing facility (the "AZ Chips Facility") in a leased space within Arizona State University's Research Park in Tempe, Arizona. The Company's understanding is that this could be the nation's first dedicated optical integrated circuit manufacturing foundry using TFLN wafers to achieve quantum effects and superior optical interconnects for data centers. Our plan for the facility is to produce a range of custom lithium niobate chips for use in our own product lines as well as chips for sale in the commercial market. The Company has plans to support this initiative by applying for funding for distinct uses under both the Title 17 Clean Energy Financing Program managed by the US Department of Energy's Loan Programs Office and also the Creating Helpful Incentives to Produce Semiconductors Act of 2022, which specifically includes \$39 billion in manufacturing incentives and \$13 billion to support new research and development. A We believe that the practical benefits to the customer of QCI's core offerings are: A A — Powerful performance in speed and quality of solution for large complex optimization problems; A A — Plug and play compatibility with existing IT infrastructure; A A — Low power consumption at normal operation under 80 watts; and A A — Scalability with potential for migration to nanophotonic system-on-a-chip designs. A The Company has limited operations, has generated limited revenue based on sales of products and related services to date, and is expanding our sales and marketing efforts to support our current portfolio of commercially-available products and planned TFLN Chips. A Market Opportunity A Despite enormous growth in the capabilities of conventional computers and silicon microprocessors, some of the world's most important computational problems are still considered impractical to solve in a reasonable period of time. Quantum computing represents a potential alternative approach to solving those problems because quantum computers apply the properties of quantum physics to operate in a fundamentally different way. Conventional computer chips use binary bits (ones and zeros) to represent information. Quantum computers utilize qubits (quantum bits), which leverage some of the properties of quantum physics, namely superposition and entanglement, to process computations that would be intractably difficult using conventional computers. Quantum machines are intrinsically able to search very large solution spaces using these quantum effects and are thereby able to perform optimization calculations in polynomial time vs. exponential time. A While quantum-based computers will not replace conventional computers in most applications, they are ideally suited to run optimization algorithms, as well as to calculate certain sensing, imaging, and cybersecurity problems that are beyond the reach of general silicon-based computing today. The Company believes that quantum solutions have the potential to bring order of magnitude advances in the fields of medicine, engineering, autonomous vehicles, and cybersecurity and that the demand for quantum computing in these market sectors will likely outpace and outperform the general-purpose computing market in the near- to mid-term and into the foreseeable future. A Our core technology offers practical, cost-effective solutions that materially advance the adoption of quantum machines across several market segments including: A 1. Quantum Computing; A 2. Quantum Intelligence (Artificial Intelligence and Machine Learning); A 3. Remote Sensing; A 4. Imaging; and A 5. Cybersecurity. A 2 A Economic Conditions, Challenges, and Risks A The markets for high-performance conventional and quantum computing and cloud-based services are dynamic and highly competitive. Our competitors are developing new computing devices, while also enhancing competing cloud-based services for businesses. Aggregate demand for our solutions, services, and devices is also correlated to global macroeconomic and geopolitical factors, which remain dynamic. We must continue to evolve and adapt over an extended time in pace with this changing environment. A The investments we are making in Quantum Optical Chips and devices will continue to increase our operating costs and may decrease our operating margins. Components for our devices are primarily manufactured by third parties. Some of our products contain certain components for which there are very few qualified suppliers. Extended disruptions at these suppliers could impact our ability to manufacture devices on time to meet consumer demand. A Our success is highly dependent on our ability to attract and retain qualified employees. We hire a mix of university and industry talent. We compete for talented individuals by offering an exceptional working environment, an ability to work on new, ground-breaking quantum technology, the ability to grow one's career across many different products and businesses, and competitive compensation and benefits. A Results of Operations A Our results of operations for the three and nine months ended September 30, 2024 and 2023 is as follows (in thousands, except percentages): A A Three Months Ended September 30, A A Nine Months Ended September 30, A A 2024 A A 2023 A A % Change A A 2024 A A 2023 A A % Change A Revenue: A A A A A A A A A A A A A A A A A A Total revenue A \$ 101 A \$ 50 A A 102 % A \$ 311 A \$ 283 A A 10 % Gross profit A 9 A A 26 A A (65 % A A 78 A A 152 A A (34 % Gross profit margin A 9 % A 52 % A (43 % A 25 % A 54 % A (29 % Operating expenses: A A A A A A A A A A A A A A A A A A Research and development A 2,244 A 2,328 A A (4 % A 6,560 A 6,977 A A (6 % Sales and marketing A 363 A 584 A A (38 % A 1,243 A A 1,397 A A (11 % General and administrative A 2,840 A 3,725 A A (24 % A 9,298 A A 11,442 A A (19 % Total operating expenses A 5,447 A 6,637 A A (18 % A 17,101 A A 19,816 A A (14 % Loss from operations A (5,438) A (6,611) A (18 % A (17,023) A (19,664) A 13 % Non-operating income and (expense): A A A A A A A A A A A A A A A A A A Interest and other income A 70 A 126 A A (44 % A 180 A A 219 A A (18 % Interest expense, net A (307) A (369) A (17 % A (462) A (1,334) A (65 % Change in value of derivative and warrant liabilities A - A - A 13 A A (100 % A - A - A 384 A A (100 % Total non-operating income (expense) A (237) A (230) A 3 % A (282) A (731) A 61 % Net loss A (\$ 5,675) A (\$ 6,841) A (17 % A (\$ 17,305) A (\$ 20,395) A (15 % A A Revenues A The Company's revenues consist of (in thousands): A A Three Months Ended September 30, A A Nine Months Ended September 30, A A 2024 A A 2023 A A % Change A A 2024 A A 2023 A A % Change A Products A \$ - A \$ - A A 27 A A \$ - A A NM A Services A 101 A 50 A A 102 % A 284 A A 283 A A - % Total A \$ 101 A \$ 50 A A 102 % A \$ 311 A \$ 283 A A 10 % Revenues for the three months ended September 30, 2024 were \$101 thousand compared to \$50 thousand for the comparable prior year period, an increase of \$51 thousand or 102%. Revenues for the nine months ended September 30, 2024 were \$311 thousand compared to \$283 thousand for the comparable prior year period, an increase of \$28 thousand or 10%. The respective increases in revenues are primarily due to changes in the number of, size of and level of effort performed on active customer proof-of-concept and research and development services and custom hardware contracts. A Cost of Revenues A Cost of revenues, which consists of direct labor expenses, primarily salary costs for engineering and solutions staff delivering services, and other direct component costs for custom hardware on research and development contracts, was \$92 thousand for the three months ended September 30, 2024, compared to \$24 thousand for the comparable prior year period, an increase of \$68 thousand or 283%. Cost of revenues for the nine months ended September 30, 2024 was \$233 thousand compared to \$131 thousand for the comparable prior year period, an increase of \$102 thousand or 78%. The respective increases are both primarily due to the increases in direct labor expenses and other direct costs required to perform on the contracts

September 30, 2024 decreased primarily due to lower employee and related compensation, reduction in the use of consultant services and decreased marketing program costs as management continued to refine the Company's approach to product and services sales. A Three Months Ended September 30, A Nine Months Ended September 30, A 2023A 2023A % ChangeA 2023A 2023A % ChangeA General and administrative \$2,840A \$3,725A (24)% \$9,298A \$11,442A (19)% General and administrative expenses consist primarily of compensation expenses for employees performing administrative functions, and professional fees incurred for legal, auditing and other consulting services. A General and administrative expenses for the three and nine months ended September 30, 2024 decreased compared to the comparable prior year period primarily due to lower employee- and advisor-related expenses, including stock-based compensation, payroll, bonus and travel expenses, as well as lower legal fees and consulting services costs driven by changes made within and by the Company's management team, offset by increased audit fees driven by the Company retaining a new independent registered public accounting firm and such firm's re-audit of the Company's financial statements for the years ending December 31, 2023 and 2022. A Non-operating Income (Expense) A The following table summarizes our non-operating income (expense) for the three and nine months ended September 30, 2024 and 2023 (in thousands, except percentages). A Three Months Ended September 30, A Nine Months Ended September 30, A 2024A 2023A % ChangeA 2024A 2023A % ChangeA Interest and other income \$70A \$126A (44)% \$180A \$219A (18)% Interest expense, netA (307)A (369)A (17)%A (462)A (1,334)A (65)% Change in value of derivative and warrant liabilitiesA -A 13A 13A (100)%A -A 384A (100)% Other income (expense)A (237)A (230)A 3%A (282)A (731)A 61%A Net other expense for the three months ended September 30, 2024 compared to the comparable prior year period is virtually unchanged, with the approximate \$62 thousand decrease in net interest expense offsetting the approximate \$56 thousand decrease in interest income. The \$449 thousand decrease in other expense for the nine months ended September 30, 2024 compared to the comparable prior year period is the result of the \$872 thousand decrease in interest expense for the Company's financial liabilities offset by a \$384 thousand reduction in gains in the fair value of the QPhoton Warrant liability. A Interest and other income consists of earned interest on loans receivable and cash and cash equivalents. See Note 2, Significant Accounting Policies "Cash and Cash Equivalents, in the accompanying notes to our unaudited condensed consolidated financial statements for additional information on where the Company maintains its cash balances. The decreases for the three and nine months ended September 30, 2024 compared to the comparable prior year periods is primarily due to the Company maintaining lower cash balances in mutual funds and deposit and money market accounts during the 2024 periods compared to the 2023 periods. A 5 A Interest expense, net consists of interest on financial liabilities, amortization of debt issuance costs, and accretion of derivative interest. The decrease in interest expense in 2024 compared to 2023 was attributable to decreased borrowings outstanding under the Streeterville Unsecured Note which was paid-in-full as of March 1, 2024, partially offset by new borrowings under the Streeterville Convertible Note that we issued in August 2024. See Note 8, Financial Liabilities, in the accompanying notes to our unaudited condensed consolidated financial statements for additional information. A The gain on change in value of warrant liability is comprised of mark-to-market adjustments for the QPhoton Warrants, which have no carrying value as of September 30, 2024 and December 31, 2023. Future mark-to-market adjustments may result in losses if the Company's stock price increases above the exercise price of the Underlying Options, as defined below. See Note 11, Capital Stock - Warrants, in the accompanying notes to our unaudited condensed consolidated financial statements for additional information on the QPhoton Warrants. There was no mark-to-market for the Streeterville Derivative Liability as of September 30, 2024. A Liquidity and Capital Resources A We have incurred net losses and experienced negative cash flows from operations since inception. Through September 30, 2024, the Company has raised \$68.3 million through private and public placements of equity and \$12.6 million through private placements of convertible promissory notes and other debt for a total of \$80.9 million. The Company has no lines of credit or short-term debt obligations outstanding when excluding the remaining debt issuance costs. We expect to incur additional losses and higher operating expenses for the foreseeable future as we continue to invest in research and development and go-to-market programs. We have determined that additional financing will be required to fund our operations for the next 12 months and our ability to continue as a going concern is dependent upon obtaining additional capital and financing. As of September 30, 2024, the Company had cash and cash equivalents of \$3.1 million. A Our primary uses of cash are to fund and invest in our operations as we continue to grow our business. We will require a significant amount of cash for continued investment in our AZ Chips Facility and ongoing research and development for our non-linear quantum optical products and photonics chips. Until such time as we can generate significant revenue from sales or subscriptions of our hardware offerings, we expect to finance our cash needs through public and/or private equity and/or debt financings or other capital sources, including but not limited to U.S. government grant and loan programs. However, we may be unable to raise sufficient funds or enter into such other arrangements, when needed, on favorable terms, or at all. In particular, uncertain and unfavorable conditions in the United States and global macroeconomic environment, including inflationary pressures, rising interest rates, bank failures, and financial and credit market fluctuations, could reduce our ability, to access capital on favorable terms, or at all. To the extent that we raise additional capital through the sale of equity or convertible debt securities, the ownership interest of our stockholders will be, or could be, diluted, and the terms of these securities may include liquidation or other preferences that adversely affect the rights of our common stockholders. Debt financing and equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends. If we are unable to raise additional funds through equity or debt financings when needed, we may be required to delay, limit, or substantially reduce our product development and go-to-market efforts. It is management's opinion that these conditions raise substantial doubt about the Company's ability to continue as a going concern for a period of 12 months from the date of the issuance of the accompanying unaudited condensed consolidated financial statements. There can be no assurances that the Company will be able to secure additional equity investments or achieve an adequate sales level. A The following table summarizes total consolidated current assets, liabilities and working capital at September 30, 2024, compared to December 31, 2023 (in thousands): A September 30, 2024A December 31, 2023A ChangeA Current AssetsA \$3,912A \$2,656A \$1,256A Current LiabilitiesA \$2,431A \$4,812A (\$2,381) Working Capital (Deficit)A \$1,481A (\$2,156)A \$3,637A A At September 30, 2024, we had working capital of \$1.5 million as compared to a working capital deficit of \$2.2 million at December 31, 2023, an increase of \$3.7 million. The increase in working capital is primarily attributable to an increase in cash proceeds from our issuance of shares of common stock using the Company's ATM Facility and our issuance of the Streeterville Convertible Note, offset by the use of cash to pay for operating expenses and capital investments in property and equipment. A 6 A Cash Flows A The following table summarizes our cash flow for the nine months ended September 30, 2024 and 2023 (in thousands). A Nine Months Ended September 30, A 2024A 2023A Net cash used in operating activitiesA \$(12,439)A \$(13,348) Net cash used in investing activitiesA (3,170)A (2,665) Net cash provided by financing activitiesA 16,614A 18,084A Net increase in cash, cash equivalents, and restricted cashA 1,005A \$(4,315) A Net cash used in operating activities for the nine months ended September 30, 2024 and 2023 was \$12.4 million and \$13.3 million, respectively, in each case primarily as a result of our net loss in each period offset by noncash adjustments for stock-based compensation, mark-to-market valuation adjustments on financial liabilities, and depreciation and amortization. A Net cash used in investing activities for the nine months ended September 30, 2024 and 2023 was \$3.2 million and \$2.7 million, respectively, and was attributable to our purchase of computer hardware, laboratory and TFLN Chips manufacturing equipment. The increase in investment in the 2024 period is primarily due to the purchase of additional equipment in connection with establishing the Company's AZ Chip Facility. A Net cash provided by financing activities was \$16.6 million and \$18.1 million, respectively, for the nine months ended September 30, 2024 and 2023. Cash flows provided by financing activities during the nine months ended September 30, 2024 were attributable to proceeds from our sale of shares of common stock pursuant to the ATM Facility and our issuance of the Streeterville Convertible Note, partially offset by repayments on the Streeterville Unsecured Note and redemptions of shares of Series A Preferred Stock. Cash flows provided by financing activities during the period ended September 30, 2023 were attributable to proceeds from our sale of shares of common stock pursuant to the ATM Facility, partially offset by repayments on the Streeterville Unsecured Note. A On a long-term basis, our liquidity is dependent on the continuation and expansion of operations and receipt of revenues. Demand for our products and services will be dependent on, among other things, market acceptance of our products and services, the technology market in general, and general economic conditions, which are cyclical in nature. As most of our revenues will be from the sales of our products and services, our business operations may be adversely affected by the actions of our competitors and prolonged recession periods. A Critical Accounting Estimates A Certain of our accounting policies require the application of significant judgment by our management, and such judgments are reflected in the amounts reported in our consolidated financial statements. In applying these policies, our management uses judgment to determine the appropriate assumptions to be used in the determination of estimates. Those estimates are based on our historical experience, terms of existing contracts, our observance of market trends, information provided by our strategic partners and information available from other outside sources, as appropriate. Actual results may differ significantly from the estimates contained in our consolidated financial statements. A Fair Value of Stock-based Compensation and Derivatives A We recognize stock-based compensation expense for all share-based payment awards in accordance with ASC 718, Compensation " Stock Compensation. Stock-based compensation expense for expected-to-vest awards is valued under the single-option approach and amortized on a straight-line basis, accounting for actual forfeitures as they occur. We utilize the Black-Scholes pricing model in order to determine the fair value of stock-based option awards. The Black-Scholes pricing model requires various highly subjective assumptions including volatility, expected option life, and risk-free interest rate. The assumptions used in calculating the fair value of share-based payment awards represent management's best estimates. These estimates involve inherent uncertainties and the application of management judgment. If factors change and different assumptions are used, our stock-based compensation expense could be materially different in the future. A Another area of critical accounting estimates involves determining the fair market value of the QPhoton Warrants. The Company determines which underlying options and warrants are in-the-money or out-of-the-money at period end by comparing to the bid price of the Company's common stock, then accounts for changes period-over-period by realizing a mark-to-market gain or loss for the period. A Another area of critical accounting estimates involves determining the fair value of the Streeterville Derivative Liability, which involves inherent uncertainties and the application of management judgment. The Streeterville Derivative Liability will be mark-to-market adjusted on a quarterly basis and accreted as interest expense while the Streeterville Convertible Note is outstanding. A 7 A Fair Market Value and Useful Life of Intangible Assets A Determining the fair market value and useful life of the intangible assets acquired by the Company through the merger with QPhoton is another critical accounting estimate. In the absence of market pricing for the intangible assets, the Company relied on independent third-party appraisal experts and comparison with similar transactions to arrive at estimates of value as well as useful life. The Company will perform periodic assessments of the intangible assets for impairment, but if any of the initial estimates are incorrect, that could result in a calculation of amortization expense that is too high or too low. A Valuation Allowances for Deferred Taxes A Our income tax expense, deferred tax assets and liabilities, and reserves for unrecognized tax benefits reflect management's assessment of estimated current and future income taxes to be paid. We are subject to income taxes in the United States. Significant judgments and estimates are required in determining the consolidated income tax expense, deferred tax assets and liabilities and reserves for unrecognized tax benefits. A Deferred tax assets and liabilities arise from temporary differences between the tax basis of assets and liabilities and their reported amounts in the consolidated financial statements, which are expected to result in taxable or deductible amounts in the future. In evaluating our ability to recover our deferred tax assets within the jurisdiction from which they arise, for all material jurisdictions, we consider all available positive and negative evidence, including scheduled reversals of deferred tax balances, projected future taxable income, tax-planning strategies and results of recent operations. In projecting future taxable income, we begin with historical results and incorporate assumptions about the amount of future state, federal and foreign pretax operating income adjusted for items that do not have tax consequences. The assumptions about future taxable income require significant judgment and are consistent with the plans and estimates we use to manage the underlying businesses. In evaluating the objective evidence that historical results provide, we consider three years of cumulative operating results. A As of September 30, 2024, we had federal and state net operating loss ("NOL") carryforwards of approximately \$60.1 million, or \$15.6 million on a tax-effected basis. We believe that it is more likely than not that the benefit from these NOL carryforwards will not be realized. Accordingly, we have provided a full valuation allowance on any potential deferred tax assets relating to these NOL carryforwards. If our assumptions change and we determine we will be able to realize these NOLs, the tax benefits relating to any reversal of the valuation allowance on deferred tax assets as of September 30, 2024, will be accounted for as a reduction of income tax expense. A The calculation of our tax liabilities involves evaluating uncertainties in the application of complex tax laws and regulations in a multitude of jurisdictions across our global operations. ASC 740, Income Taxes, states that a tax benefit from an uncertain tax position may be recognized when it is more likely than not that the position will be sustained upon examination, including the resolution of any related appeals or litigation processes, on the basis of the technical merits. A We record unrecognized tax benefits as liabilities in accordance with ASC 740 and adjust these liabilities when our judgment changes as a result of the evaluation of new information not previously available. Because of the complexity of some of these uncertainties, the ultimate resolution may result in a tax payment that is materially different from our current estimate of the unrecognized tax benefit liabilities. These differences will be reflected as increases or decreases to income tax expense in the period in which new information is made available. A We believe that none of the unrecognized tax benefits may be recognized by the end of 2024. A Legal and Other Contingencies A The outcomes of legal proceedings and claims brought against us are subject to significant uncertainty. An estimated loss from a loss contingency such as a legal proceeding or claim is accrued by a charge to income if it is probable that an asset has been impaired or a liability has been incurred and the amount of the loss can be reasonably estimated. In determining whether a loss should be accrued we evaluate, among other factors, the degree of probability of an unfavorable outcome and the ability to make a reasonable estimate of the amount of loss. Changes in these factors could materially impact our unaudited condensed consolidated financial statements. A 8 A Item 3.A Quantitative and Qualitative Disclosures About Market Risk A Not applicable. A Item 4.A Controls and Procedures A (a) Evaluation of Disclosure Controls and Procedures A We maintain "disclosure controls and procedures," as such term is defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"). In designing and evaluating our disclosure controls and procedures, our management recognized that disclosure controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of disclosure controls and procedures are met. Additionally, in designing disclosure controls and procedures, our management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible disclosure controls and procedures. The design of any disclosure controls and procedures also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. A As of the end of the period covered by this Quarterly Report on Form 10-Q, we carried out an evaluation, under the supervision and with the participation of our management, including our principal executive officer and our principal financial officer, of the effectiveness of our disclosure controls and procedures. Based on such evaluation, our principal executive officer and principal financial officer concluded that as of September 30, 2024, our disclosure controls and procedures were not effective to provide reasonable assurance that (a) the information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and (b) such information is accumulated and communicated to our management, including our Chief Executive Officer and President and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure. A (b)A Changes in Internal Control over Financial Reporting A There were no changes in our internal control over financial reporting (as defined in Rule 13a-15(f) and Rule 15d-15(f) under the Exchange Act) during our most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. A 9 A PART II " OTHER INFORMATION A Item 1. Legal Proceedings. A Except as listed below, there is no action, suit, or proceeding by any court, public board, government agency, self-regulatory organization or body pending or, to the knowledge of the executive officers of the Company or our subsidiaries, threatened against or affecting the Company, our common stock, our subsidiaries, or the Company's or its subsidiaries' officers or directors in their capacities as such, in which an adverse decision could have a material adverse effect on the Company. A BV Advisory v. QCI Appraisal Action A BV Advisory was purportedly a shareholder of QPhoton, Inc., the predecessor in interest to QPhoton, LLC, a wholly owned subsidiary of the Company (both referred to as "QPhoton" in this Legal Proceedings discussion). On October 13, 2022, BV Advisory filed a petition in the DE Chancery Court seeking appraisal rights (the "Appraisal Petition") on the shares of common stock of QPhoton it allegedly owns (which shares represented 10% of the shares of common stock of QPhoton outstanding immediately prior to the Company's acquisition of QPhoton) pursuant to Section 262 of the General Corporation Law of the State of Delaware. The parties agreed to suspend discovery pending resolution of outstanding motions in two related cases. On July 24, 2024, the DE Chancery Court granted a petition by BV Advisory's legal counsel to withdraw from the

As of November 4, 2024, BV Advisory retained new counsel to represent it on the Appraisal Petition, and the Company does not have sufficient information to assess the potential impact of the appraisal demand at this time. A BV Advisory v. QCi Breach Lawsuit. On March 1, 2021, QPhoton entered into a Note Purchase Agreement with BV Advisory. Under the Note Purchase Agreement, on March 1, 2021, March 23, 2021 and July 9, 2021, QPhoton and BV Advisory entered into convertible promissory notes for \$200,592, \$150,000, and \$150,000, respectively, for a total of \$500,592 (the "BV Notes"). The BV Notes all bore interest at a rate of 6% per annum and matured two years from the issuance date. On June 16, 2022, the effective date of our acquisition of QPhoton, QPhoton tendered a cashier's check to BV Advisory in the amount of \$535,684.24, representing the full principal balance of the BV Notes and accrued interest through June 16, 2022. On July 14, 2022, BV Advisory returned the cashier's check and disputed the calculation of the amount paid to settle the BV Notes. On August 16, 2022, BV Advisory filed a complaint in the DE Chancery Court naming the Company and certain of its directors and officers (among others) as defendants (the "Breach Lawsuit"). BV Advisory Partners, LLC v. Quantum Computing Inc., et al., C.A. No. 2022-0719-VCG (Del. Ch.). BV Advisory is seeking, among other relief, monetary damages for an alleged breach of the Note Purchase Agreement between BV Advisory and QPhoton, as well as monetary damages for alleged breach of an alleged binding letter of intent among Barksdale Global Holdings, LLC (the "BGH"), Inference Ventures, LLC (the "Inference Ventures") and QPhoton. BV Advisory and its affiliates claim that pursuant to the letter of intent they had the right to acquire additional shares in QPhoton by investing \$2.5 million in QPhoton. BV Advisory claims QPhoton refused to allow BV Advisory to purchase the equity. However, BV Advisory never made the additional investment in QPhoton. The Company believes that BV Advisory's claims have no merit and intends to defend itself vigorously. The Company filed a motion to dismiss most of the Breach Lawsuit, and on May 28, 2024, the DE Chancery Court dismissed eight of the 10 counts in the BV Advisory complaint. On July 24, 2024, the DE Chancery Court entered an Order dismissing those eight counts with prejudice. On October 17, 2024, the DE Chancery Court granted a Stipulation and Order dismissing the two remaining counts of the BV Advisory complaint, subject to BV Advisory's right to elect to transfer the BV Note claim to DE Superior Court. On October 23, 2024, BV Advisory filed an initial notice of election to transfer its BV Note claim to DE Superior Court. As of November 4, 2024, the parties are anticipating a conference with the DE Chancery Court to discuss a schedule for the Appraisal Petition, pending BV Advisory retaining counsel in that action. A QCi v. BV Advisory Defamation Lawsuit. On December 30, 2022 the Company, QPhoton and Robert Liscouski (the "Quantum Plaintiffs") filed suit in the Superior Court of New Jersey (the "NJ Court") against Keith Barksdale, Michael Kotlarz, BV Advisory, BGH, Power Analytics Global Corporation (the "PAG"), and Inference Ventures (and together with Barksdale, Kotlarz, BV Advisory, BGH, and PAG the "BV Defendants"), alleging fraud, aiding and abetting fraud, defamation, and conspiracy to defraud, seeking monetary and injunctive relief (the "Defamation Lawsuit"). The Company claims that the BV Defendants have made numerous public statements defaming the Company and its management in furtherance of a plan to manipulate the trading prices of the Company's common stock, and that the BV Defendants misrepresented their ownership in QPhoton and conspired to acquire additional shares of QPhoton at the Company's expense. The BV Defendants filed a motion to dismiss the complaint on March 24, 2023, and on June 5, 2023, the NJ Court largely denied the BV Defendants' motion. On January 31, 2024, the BV Defendants filed a motion for reconsideration of their motion to dismiss. On March 7, 2024, the NJ Court issued an order, granting the BV Defendants' motion dismissing the Company's case on procedural grounds because, according to the NJ Court, the Company can assert its claims against Defendants in the Delaware courts. The Company filed a motion for reconsideration of the order dismissing the case, which was argued on April 30, 2024. On May 1, 2024 the NJ Court affirmed its initial order dismissing the case and directed the Company to file its claims against the BV Defendants in Delaware. The Company is currently evaluating whether it should file the claims in Delaware and does not have sufficient information at this time to assess the potential impact of the action against the BV Defendants. A 10 A BV Advisory Receivership Petition. On July 27, 2023, BV Advisory and its managing member, Keith Barksdale, as alleged stockholders of and claimants against the Company, filed a petition in the DE Chancery Court to appoint a receiver for the Company based on allegations that the Company is insolvent due to purported poor corporate governance and cash management. The petition also objects to the Company's approach to raising capital. In a related motion, the petitioners also sought expedited treatment of the petition on July 28, 2023, alleging that they face a threat of irreparable harm. The Company strongly disagrees with the allegations in the petition. On August 23, 2023, the Company filed a motion to dismiss the petition. The Company's motion to dismiss and BV Advisory's motion for expedited treatment were argued before the DE Chancery Court on October 11, 2023. The DE Chancery Court denied BV Advisory's motion to expedite and on May 28, 2024 the DE Chancery Court granted the Company's motion to dismiss the petition without prejudice. A Item 1A Risk Factors. We believe there are no changes that constitute material changes from the risk factors previously disclosed in our Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on April 1, 2024. A Item 2. Unregistered Sales of Equity Securities and Use of Proceeds. A There were no unregistered sales of or Company repurchases of the Company's equity securities during the three months ended September 30, 2024. A Item 3. Defaults upon Senior Securities. A There has been no default in the payment of principal, interest, sinking or purchase fund installment, or any other material default, with respect to any indebtedness of the Company. A Item 4. Mine Safety Disclosures. A Not Applicable. A Item 5. Other Information. A None A 11 A Item 6. Exhibits. A A A Incorporated by A Exhibit A A Reference A Filed or Furnished Number A Exhibit Description A Form A Exhibit Filing Date A Herewith 4.1 A Secured Promissory Note issued to Streeterville Capital, LLC, dated as of August 6, 2024 A 8-K A 4.1 A 08/12/24 A A 10.1 A Securities Purchase Agreement between Quantum Computing Inc. and Streeterville Capital, LLC, dated as of August 6, 2024 A 8-K A 10.1 A 08/12/24 A A 10.2 A Security Agreement between Quantum Computing Inc. and Streeterville Capital, LLC, dated as of August 6, 2024 A 8-K A 10.2 A 08/12/24 A A 10.3 A IP Security Agreement between Quantum Computing Inc. and Streeterville Capital, LLC, dated as of August 6, 2024 A 8-K A 10.3 A 08/12/24 A A 10.4 A Guaranty by QPhoton, LLC, Qubittech International, Inc., Qubittech, Inc., and QI Solutions, Inc., dated August 6, 2024 A 8-K A 10.4 A 08/12/24 A A 10.5 A Amendment to Employment Agreement by and between Quantum Computing Inc. and Yuping Huang, dated as of September 1, 2024 A A A X 31.1 A Certification of Chief Executive Officer pursuant to Rule 134-1(a) or Rule 15d-14(a) of the Securities Exchange Act of 1934, as amended. A A A A X 31.2 A Certification of Chief Financial Officer pursuant to Rule 134-1(a) or Rule 15d-14(a) of the Securities Exchange Act of 1934, as amended. A A A A X 32.1 A Certification of Chief Executive Officer pursuant to 18 U.S.C. 1350. A A A A X 32.2 A Certification of Chief Financial Officer pursuant to 18 U.S.C. 1350. A A A A X 101.INS A Inline XBRL Instance Document A A A A X 101.SCH A Inline XBRL Taxonomy Extension Schema Linkbase Document A A A A X 101.CAL A Inline XBRL Taxonomy Calculation Linkbase Document A A A A X 101.DEF A Inline XBRL Taxonomy Extension Definition Linkbase Document A A A A X 101.LAB A Inline XBRL Taxonomy Label Linkbase Document A A A A X 101.PRE A Inline XBRL Taxonomy Presentation Linkbase Document A A A A X 104 A Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101). A A A A A **Indicates a management contract or compensatory plan or arrangement. A 12 A SIGNATURES Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereto duly authorized. A A QUANTUM COMPUTING INC. A A Dated: November 6, 2024 By: /s/ Dr. William McGann A Dr. William McGann A Chief Executive Officer and President A A A By: /s/ Christopher Boehmler A Christopher Boehmler A Chief Financial Officer A A 13 A As described in Note 15 to these unaudited consolidated financial statements, we have restated the condensed consolidated statements of operations for the three and nine months ended September 30, 2023. As described in Note 15 to these unaudited consolidated financial statements, we have restated the condensed consolidated statement of cash flows for the nine months ended September 30, 2023. 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04 xbrli:shares iso4217:USD iso4217:USD xbrli:shares xbrli:pure EX-10.5.2 ea021957201ex10.5 quantum.htm AMENDMENT 1, DATED AS OF SEPTEMBER 1, 2024, TO EMPLOYMENT
AGREEMENT, DATED AS OF JUNE 16, 2022, BY AND BETWEEN QUANTUM COMPUTING INC. AND YUPING HUANG Exhibit 10.5 Â AMENDMENT 1 TO EMPLOYMENT AGREEMENT Â
Between Â QUANTUM COMPUTING INC. and YUPING HUANG Â This First Amendment to Employment Agreement (this âœFirst Amendmentâœ) is made as of the 1st day of September 2024,
between Yuping Huang (the âœExecutiveâœ) and Quantum Computing Inc. (the âœCompanyâœ), and amends in certain respects that certain Employment Agreement dated as of June 16,
2022, between the Executive and the Company (the âœOriginal Employment Agreementâœ). Â 1. Amendment to Section 3.1. Section 3.1 of the Original Agreement is hereby deleted and
replaced in its entirety with the following: Â Salary. Effective September 1, 2024 the Company shall pay Executive hourly rate of One Hundred Ninety-Two Dollars and Thirty One Cents
(\$192.31) payable in twice monthly installments in accordance with the Companyâœs customary payroll cycle (the âœBase Rateâœ). The Base Rate thereafter shall be subject to annual review
and adjustment, as determined by the Board (or the Compensation Committee of the Board) in its sole discretion, provided, however, that the Base Rate may not be decreased without the
Executiveâœs consent unless the compensation payable to all executives of the Company is also similarly reduced. Gross Wages, defined as hours worked times the Base Rate, shall be used in
lieu of Base Salary, for the purpose of calculating bonus awards. The Executive shall be treated as hourly, exempt under the FLSA and will receive a W-2 at year end. Executive agrees that this
change from salary to hourly payment does not trigger the Termination for Good Reason provision in Section 5.5. The Company and Executive further agree that this change does not affect the
vesting of any stock option grants. Â 2. Amendment to Section 5.2. Section 5.2 of the Original Agreement is hereby deleted and replaced in its entirety with the following: Â Voluntary
Termination by the Company, or for Good Reason. In the event that Executiveâœs employment is terminated during the term of this Agreement without Cause, or by Executiveâœs
resignation for Good Reason, and Executive executes a release in favor of the Company substantially in the form annexed hereto as Exhibit C, not later than 30 days after Executiveâœs
employment terminates, and the period in which Executive is entitled to revoke such release has expired without any such revocation, then the Company shall continue to pay to Executive the
Base Rate in effect immediately prior to such termination for the one-month period following Executiveâœs last day of employment, times the average weekly hours worked in the eight weeks
prior to such termination. In addition, the Company shall continue Executiveâœs coverage under and its contributions towards Executiveâœs health care, dental, and life insurance benefits
on the same basis as immediately prior to the date of termination, except as provided below, for the six-month period following Executiveâœs last day of employment. Notwithstanding the
foregoing, subject to any overriding laws, the Company shall not be required to provide any health care, dental, or life insurance benefit otherwise receivable by Executive if Executive is
actually covered or becomes covered by an equivalent benefit (at the same cost to Executive, if any) from another source. Any such benefit made available to Executive shall be reported to the
Company. Â 3. No Other Amendments. The Original Employment Agreement remains in full force and effect and is unamended except as explicitly set forth in this First Amendment. Â 4.
Counterparts. This First Amendment may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same
instrument. Â [Remainder of page intentionally left blank; signature page follows] Â Â Â IN WITNESS WHEREOF, of each of the Executive and the Company has executed this First
Amendment as of the date first above written. Â YUPING HUANG Â Quantum Computing Inc. Â Â Â Signature: /s/ Yuping Huang Â Signature: /s/ Chris Boehmler Typed Name:Â Yuping
Huang Â Typed Name:Â Chris Boehmler Title: Chief Quantum Officer Â Title: Chief Financial Officer Â Â Date: 9/6/2024 Â Date: 9/6/2024 Â Â Â EX-31.1.3 ea021957201ex31-
1 quantum.htm CERTIFICATION Exhibit 31.1 Â Rule 13a-14(a)/15d-14(a) Certification of Chief Executive Officer Â I, Dr. William McGann, certify that: Â 1. I have reviewed this Quarterly
Report on Form 10-Q of Quantum Computing Inc.; Â 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary
to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; Â 3. Based on my
knowledge, the financial statements, and other financial information included in this report fairly present in all material respects the financial condition, results of operations and cash flows of
the registrant as of, and for, the periods presented in this report; Â 4. The registrantâœs other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls
and procedures (as defined in Exhibit Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the
registrant and have: Â (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material
information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being
prepared; Â (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide
reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting
principles; Â (c) Evaluated the effectiveness of the registrantâœs disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the
disclosure controls and procedures as of the end of the period covered by this report based on such evaluation; and Â (d) Disclosed in this report any change in the registrantâœs
internal control over financial reporting that occurred during the registrantâœs most recent fiscal quarter (the registrantâœs fourth fiscal quarter in the case of an annual report) that has
materially affected, or is reasonably likely to materially affect, the registrantâœs internal control over financial reporting; and Â 5. The registrantâœs other certifying officer(s) and I have
disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâœs auditors and the audit committee of the registrantâœs board of directors (or
persons performing the equivalent functions): Â (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are
reasonably likely to adversely affect the registrantâœs ability to record, process, summarize, and report financial information; and Â (b) Any fraud, whether or not material, that involves
management or other employees who have a significant role in the registrantâœs internal control over financial reporting. Â Dated: November 6, 2024 Â Â Â /s/ Dr. William
McGann Â By: Dr. William McGann Â Principal Executive Officer Â EX-31.2.4 ea021957201ex31-2 quantum.htm CERTIFICATION Exhibit 31.2 Â Rule 13a-14(a)/15d-14(a) Certification of
Chief Financial Officer Â I, Christopher Boehmler, certify that: Â 1. I have reviewed this Quarterly Report on Form 10-Q of Quantum Computing Inc.; Â 2. Based on my knowledge, this
report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such
statements were made, not misleading with respect to the period covered by this report; Â 3. Based on my knowledge, the financial statements, and other financial information included in
this report fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; Â 4. The
registrantâœs other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exhibit Act Rules 13a-15(e) and 15d-15(e)) and
internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: Â (a) Designed such disclosure controls and procedures,
or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries,
is made known to us by others within those entities, particularly during the period in which this report is being prepared; Â (b) Designed such internal control over financial reporting, or
caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of
financial statements for external purposes in accordance with generally accepted accounting principles; Â (c) Evaluated the effectiveness of the registrantâœs disclosure controls and
procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures as of the end of the period covered by this report based on such
evaluation; and Â (d) Disclosed in this report any change in the registrantâœs internal control over financial reporting that occurred during the registrantâœs most recent fiscal
quarter (the registrantâœs fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâœs internal control over
financial reporting; and Â 5. The registrantâœs other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the
registrantâœs auditors and the audit committee of the registrantâœs board of directors (or persons performing the equivalent functions): Â (a) All significant deficiencies and material
weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâœs ability to record, process, summarize and
report financial information; and Â (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâœs internal
control over financial reporting. Â Dated: November 6, 2024 Â Â Â /s/ Christopher Boehmler Â By: Christopher Boehmler Â Principal Financial Officer and Principal Accounting Officer
Â EX-32.1.5 ea021957201ex32-1 quantum.htm CERTIFICATION Exhibit 32.1 Â CERTIFICATION PURSUANT TO 18 USC, SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE
SARBANES-OXLEY ACT OF 2002 Â In connection with the Quarterly Report of Quantum Computing Inc. (the âœCompanyâœ) on Form 10-Q for the quarter ended September 30, 2024, as filed
with the Securities and Exchange Commission on or about the date hereof (the âœReportâœ), I, Dr. William McGann, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Sec.
1350, as adopted pursuant to Sec. 906 of the Sarbanes-Oxley Act of 2002, that: Â (1) The Report fully complies with the requirements of Sections 13(a) or 15(d) of the Securities Exchange
Act of 1934; and Â (2) Information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. Â Dated: November
6, 2024 Â Â Â /s/ Dr. William McGann Â By: Dr. William McGann Â Principal Executive Officer Â EX-32.2.6 ea021957201ex32-2 quantum.htm CERTIFICATION Exhibit 32.2 Â
CERTIFICATION PURSUANT TO 18 USC, SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 Â In connection with the Quarterly Report of
Quantum Computing Inc. (the âœCompanyâœ) on Form 10-Q for the quarter ended September 30, 2024, as filed with the Securities and Exchange Commission on or about the date hereof (the
âœReportâœ), I, Christopher Boehmler, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Sec. 1350, as adopted pursuant to Sec. 906 of the Sarbanes-Oxley Act of 2002,
that: Â (1) The Report fully complies with the requirements of Sections 13(a) or 15(d) of the Securities Exchange Act of 1934; and Â (2) Information contained in the Report fairly
presents, in all material respects, the financial condition and results of operations of the Company. Â Dated: November 6, 2024 Â Â Â /s/ Christopher Boehmler Â By: Christopher Boehmler
Â Principal Financial Officer and Principal Accounting Officer Â EX-101.SCH 7 qubt-20240930.xsd XBRL SCHEMA FILE 995301 - Statement - Condensed Consolidated Balance Sheets
(Unaudited) link:presentationLink link:definitionLink link:calculationLink 995302 - Statement - Condensed Consolidated Balance Sheets (Unaudited) (Parentheticals) link:presentationLink
link:definitionLink link:calculationLink 995303 - Statement - Condensed Consolidated Statements of Operations (Unaudited) link:presentationLink link:definitionLink link:calculationLink 995304
- Statement - Condensed Consolidated Statements of Mezzanine and Stockholdersâœ Equity (Unaudited) link:presentationLink link:definitionLink link:calculationLink 995305 - Statement -
Condensed Consolidated Statements of Cash Flows (Unaudited) link:presentationLink link:definitionLink link:calculationLink 995306 - Disclosure - Nature of the Organization and Business
link:presentationLink link:definitionLink link:calculationLink 995307 - Disclosure - Significant Accounting Policies link:presentationLink link:definitionLink link:calculationLink 995308 -
Disclosure - Net Loss per Common Share link:presentationLink link:definitionLink link:calculationLink 995309 - Disclosure - Income Taxes link:presentationLink link:definitionLink
link:calculationLink 995310 - Disclosure - Intangible Assets and Goodwill link:presentationLink link:definitionLink link:calculationLink 995311 - Disclosure - Property and Equipment
link:presentationLink link:definitionLink link:calculationLink 995312 - Disclosure - Operating Leases link:presentationLink link:definitionLink link:calculationLink 995313 - Disclosure - Financial
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Contingencies link:presentationLink link:definitionLink link:calculationLink 995316 - Disclosure - Capital Stock link:presentationLink link:definitionLink link:calculationLink 995317 - Disclosure -
Stock-Based Compensation link:presentationLink link:definitionLink link:calculationLink 995318 - Disclosure - Related Party Transactions link:presentationLink link:definitionLink
link:calculationLink 995319 - Disclosure - License Agreement âœ Stevens Institute of Technology link:presentationLink link:definitionLink link:calculationLink 995320 - Disclosure - Restatement
of Previously Issued Financial Statements link:presentationLink link:definitionLink link:calculationLink 995321 - Disclosure - Subsequent Events link:presentationLink link:definitionLink
link:calculationLink 996000 - Disclosure - Accounting Policies, by Policy (Policies) link:presentationLink link:definitionLink link:calculationLink 996001 - Disclosure - Net Loss per Common
Share (Tables) link:presentationLink link:definitionLink link:calculationLink 996002 - Disclosure - Intangible Assets and Goodwill (Tables) link:presentationLink link:definitionLink
link:calculationLink 996003 - Disclosure - Property and Equipment (Tables) link:presentationLink link:definitionLink link:calculationLink 996004 - Disclosure - Operating Leases (Tables)
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- Capital Stock (Tables) link:presentationLink link:definitionLink link:calculationLink 996007 - Disclosure - Stock-Based Compensation (Tables) link:presentationLink link:definitionLink
link:calculationLink 996008 - Disclosure - Nature of the Organization and Business (Details) link:presentationLink link:definitionLink link:calculationLink 996009 - Disclosure - Significant
Accounting Policies (Details) link:presentationLink link:definitionLink link:calculationLink 996010 - Disclosure - Net Loss per Common Share (Details) - Schedule of Computation of Basic and
Diluted Loss Per Share link:presentationLink link:definitionLink link:calculationLink 996011 - Disclosure - Net Loss per Common Share (Details) - Schedule of Weighted Average Common Stock
Equivalents Securities Outstanding Effect Anti-Dilutive link:presentationLink link:definitionLink link:calculationLink 996012 - Disclosure - Income Taxes (Details) link:presentationLink

[link:definitionLink link:calculationLink 996013](#) - Disclosure - Intangible Assets and Goodwill (Details) [link:presentationLink link:definitionLink link:calculationLink 996015](#) - Disclosure - Intangible Assets and Goodwill (Details) - Schedule of Amounts Related to Intangible Assets [link:presentationLink link:definitionLink link:calculationLink 996016](#) - Disclosure - Property and Equipment (Details) [link:presentationLink link:definitionLink link:calculationLink 996017](#) - Disclosure - Property and Equipment (Details) - Schedule of Property and Equipment [link:presentationLink link:definitionLink link:calculationLink 996018](#) - Disclosure - Operating Leases (Details) - Schedule of Undiscounted Future Minimum Lease Payments Under Operating Leases [link:presentationLink link:definitionLink link:calculationLink 996019](#) - Disclosure - Operating Leases (Details) - Schedule of Other Information Related to Operating Lease Liabilities [link:presentationLink link:definitionLink link:calculationLink 996020](#) - Disclosure - Financial Liabilities (Details) [link:presentationLink link:definitionLink link:calculationLink 996021](#) - Disclosure - Financial Liabilities (Details) - Schedule of Outstanding Promissory Notes Payable to Financial Liabilities [link:presentationLink link:definitionLink link:calculationLink 996022](#) - Disclosure - Loan Receivable (Details) [link:presentationLink link:definitionLink link:calculationLink 996023](#) - Disclosure - Contingencies (Details) [link:presentationLink link:definitionLink link:calculationLink 996024](#) - Disclosure - Capital Stock (Details) [link:presentationLink link:definitionLink link:calculationLink 996025](#) - Disclosure - Capital Stock (Details) - Schedule of Warrants Outstanding [link:presentationLink link:definitionLink link:calculationLink 996026](#) - Disclosure - Stock-Based Compensation (Details) [link:presentationLink link:definitionLink link:calculationLink 996027](#) - Disclosure - Stock-Based Compensation (Details) - Schedule of Option Activity [link:presentationLink link:definitionLink link:calculationLink 996028](#) - Disclosure - Stock-Based Compensation (Details) - Schedule of Grant-Date Fair Value of Stock Options Granted [link:presentationLink link:definitionLink link:calculationLink 996029](#) - Disclosure - Stock-Based Compensation (Details) - Schedule of Exercise Price Range [link:presentationLink link:definitionLink link:calculationLink 996030](#) - Disclosure - Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock [link:presentationLink link:definitionLink link:calculationLink 996031](#) - Disclosure - Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted [link:presentationLink link:definitionLink link:calculationLink 996032](#) - Disclosure - License Agreement â€” Stevens Institute of Technology (Details) [link:presentationLink link:definitionLink link:calculationLink 996033](#) - Disclosure - Restatement of Previously Issued Financial Statements (Details) [link:presentationLink link:definitionLink link:calculationLink 996034](#) - Disclosure - Subsequent Events (Details) [link:presentationLink link:definitionLink link:calculationLink 000](#) - Document - Document And Entity Information [link:presentationLink link:definitionLink link:calculationLink EX-101.CAL 8 qubt-20240930_cal.xml XBRL CALCULATION FILE EX-101.DEF 9 qubt-20240930_def.xml XBRL DEFINITION FILE EX-101.LAB 10 qubt-20240930_lab.xml XBRL LABEL FILE Total current assets Total assets Total current liabilities Total liabilities Liabilities Class of Stock \[Axis\] Total stockholdersâ€™ equity Balance Balance Equity, attributable to parent Total liabilities and mezzanine and stockholdersâ€™ equity Gross profit Total operating expenses Loss from operations Loss before income tax provision Net loss Net loss attributable to common stockholders Net loss attributable to common stockholders â€™ basic Balance \(in Shares\) Balance \(in Shares\) Equity Components \[Axis\] Net cash used in operating activities Net cash used in investing activities Net cash provided by financing activities Net increase in cash Cash and cash equivalents, beginning of period Cash and cash equivalents, end of period Nature of the Organization and Business \[Abstract\] Significant Accounting Policies \[Abstract\] Net Loss per Common Share \[Abstract\] Schedule of Computation of Basic and Diluted Loss Per Share \[Abstract\] Antidilutive Securities \[Axis\] Income Taxes \[Abstract\] Intangible Assets and Goodwill \[Abstract\] Finite-Lived Intangible Assets by Major Class \[Axis\] Schedule of Future Amortization Expense \[Abstract\] Total Net Carrying Amount Property and Equipment \[Abstract\] Long-Lived Tangible Asset \[Axis\] Property and equipment, net Property and equipment, net Operating Leases \[Abstract\] Schedule of Undiscounted Future Minimum Lease Payments Under Operating Leases \[Abstract\] Total minimum payments Present value of operating lease liabilities Schedule of Other Information Related Operating Lease Liabilities \[Abstract\] Financial Liabilities \[Abstract\] Schedule of Outstanding Promissory Notes Payable to Financial Liabilities \[Abstract\] Debt Instrument \[Axis\] Financial liabilities, net of issuance costs Loan Receivable \[Abstract\] Contingencies \[Abstract\] Capital Stock \[Abstract\] Award Date \[Axis\] Class of Warrant or Right \[Axis\] Stock-Based Compensation \[Abstract\] Schedule of Option Activity \[Abstract\] Number Outstanding, Outstanding balance Weighted Average Exercise Price per Share, Outstanding balance Statistical Measurement \[Axis\] Schedule of Exercise Price Range \[Abstract\] Exercise Price Range \[Axis\] Statement of Income Location, Balance \[Axis\] Related Party Transactions \[Abstract\] License Agreement â€” Stevens Institute of Technology \[Abstract\] Restatement of Previously Issued Financial Statements \[Abstract\] Subsequent Events \[Abstract\] Assets Current assets: Cash and cash equivalents Accounts receivable, net Inventory Loans receivable, net Prepaid expenses and other current assets Operating lease right-of-use assets Intangible assets, net Goodwill Other non-current assets Liabilities, Mezzanine, and Stockholdersâ€™ Equity Current liabilities: Accounts payable Accrued expenses Financial liabilities, net of issuance costs Deferred revenue Other current liabilities Other current liabilities \(in Dollars\) Financial liabilities, net of issuance costs Derivative liability Derivative Liability Operating lease liabilities Long-term operating lease liabilities Contingencies \(see Note 10\) Mezzanine equity Stockholdersâ€™ equity: Preferred stock, \\$0.0001 par value, 1,550 shares Series A Preferred authorized; 993 thousand and 1,490 thousand shares issued and outstanding as of September 30, 2024 and December 31, 2023, respectively; 3,080 thousand shares of Series B Preferred Stock authorized; no shares issued and outstanding as of September 30, 2024 and December 31, 2023 Preferred stock par value \(in Dollars per share\) Preferred stock, par value \(in Dollars per share\) Preferred stock, shares authorized Preferred stock, share authorized Preferred stock, shares issued Preferred stock shares issued Preferred stock shares outstanding Preferred stock shares outstanding Common stock, \\$0.0001 par value, 250,000 thousand shares authorized; 94,416 thousand and 77,451 thousand shares issued and outstanding as of September 30, 2024 and December 31, 2023, respectively Common stock, par value \(in Dollars per share\) Common stock, shares authorized Common stock, shares issued Common stock shares issued Common stock, shares outstanding Common stock shares outstanding Additional paid-in capital Accumulated deficit Total revenue Cost of revenue Operating expenses Research and development Sales and marketing General and administrative Non-operating income \(expense\) Interest and other income Loss per share â€™ basic \(in Dollars per share\) Net loss per common share â€™ basic \(in Dollars per share\) Loss per share â€™ diluted \(in Dollars per share\) Net loss per common share - diluted \(in Dollars per share\) Weighted average shares used in computing net loss per common share â€™ basic \(in Shares\) Weighted average shares used in computing net loss per common share â€™ dilutive \(in Shares\) Weighted average shares used in computing net loss per common share â€™ diluted \(in Shares\) Issuance of shares for cash Repurchase of redeemable shares Stock-based compensation Stock-based compensation for services Issuance of shares for cash \(in Shares\) Shares issued Reclassification of Series A preferred stock to mezzanine equity Reclassification of Series A preferred stock to mezzanine equity \(in Dollars\) Stock-based compensation \(in Shares\) Stock-based compensation for services \(in Shares\) Conversion of preferred stock Conversion of preferred stock \(in Shares\) Cash flows from operating activities: Adjustments to reconcile net loss to net cash used in operations Depreciation and intangibles amortization Amortization of issuance costs Change in fair value of warrant liability Change in value of warrant liabilities Recognized mark-to-market gains \(in Dollars\) Stock-based compensation expense Total stock-based compensation Stock-based compensation expense for services Total stock-based compensation Changes in operating assets and liabilities Accounts payable Deferred revenue Accrued expenses and other current liabilities Other long-term liabilities Cash flows from investing activities: Cash flows from financing activities: Proceeds raised from financial liabilities, net of issuance costs Proceeds from stock issuance related to ATM facility Supplemental disclosures of cash flow information: Cash paid for interest Non-cash investing and financing activities: Reclassification of Series A preferred stock to mezzanine equity Valuation of derivative associated with convertible financial liability Interest expense, net Income tax provision Less: Series A convertible preferred stock dividends Less: Series A convertible preferred stock dividends Repurchase of redeemable shares \(in Shares\) Redeemed, shares Preferred stock dividends Other recognized losses \(gains\) Accounts receivable Inventories Prepaid expenses and other current assets Other non-current assets Purchase of property and equipment Loans receivable Payments of financial liabilities, net of interest Series A Preferred stock dividend payments Repurchase of Series A preferred stock Series A Preferred Stock Series A Preferred Stock \[Member\] Series A Convertible Preferred Stock \[Member\] Series B Preferred Stock Series B Preferred Stock \[Member\] Mezzanine Equity Series A Preferred Stock Preferred Stock \[Member\] Common Stock Common Stock \[Member\] Series A Convertible Preferred Stock \[Member\] Additional Paid-In Capital Accumulated Deficit Nature of the Organization and Business Significant Accounting Policies Net Loss per Common Share Schedule of Computation of Basic and Diluted Loss Per Share Numerator: Net loss available to common stockholders â€™ diluted Denominator: Schedule of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti-Dilutive Total potentially dilutive shares Income Taxes Intangible Assets and Goodwill Schedule of Amounts Related to Intangible Assets Gross Carrying Amount Schedule of Future Amortization Expense 2024 \(remaining three months\) 2025 2026 2027 2028 Thereafter Property and Equipment Schedule of Property and Equipment Total cost of property and equipment Estimated Useful Life Estimated Useful Life Operating Leases Schedule of Undiscounted Future Minimum Lease Payments Under Operating Leases 2024 \(remaining three months\) 2025 2026 2027 2028 Schedule of Other Information Related to Operating Lease Liabilities Cash paid for operating lease liabilities Weighted average remaining lease term in years Weighted average discount rate Financial Liabilities Schedule of Outstanding Promissory Notes Payable to Financial Liabilities Remaining loan balances Aggregate principal amount Derivative liability Loan Receivable Contingencies Capital Stock Schedule of Warrants Outstanding Expiration Date Exercise Price \(in Dollars per share\) Exercise price per share \(in Dollars per share\) Exercise price \(in Dollars per share\) Issued Warrants Outstanding Issuance of warrant Stock-based Compensation Schedule of Option Activity Weighted Average Remaining Contractual Life \(Years\), Outstanding balance Number Outstanding, Granted Weighted Average Exercise Price per Share, Granted Weighted average grant-date fair value of stock options granted \(in Dollars per share\) Weighted Average Remaining Contractual Life \(Years\), Granted Number Outstanding, Exercised Weighted Average Exercise Price per Share, Exercised Weighted Average Remaining Contractual Life \(Years\), Exercised Weighted Average Exercise Price per Share, Forfeited Weighted Average Remaining Contractual Life \(Years\), Forfeited Number Outstanding, Vested and exercisable Weighted Average Exercise Price per Share, Vested and exercisable Weighted Average Remaining Contractual Life \(Years\), Vested and exercisable Schedule of Grant-Date Fair Value of Stock Options Granted Exercise price \(in Dollars per share\) Risk-free interest rate Expected volatility Expected dividend yield Expected life of options \(in years\) Schedule of Exercise Price Range Exercise Price \(in Dollars per share\) Outstanding Options Exercisable Options Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted Related Party Transactions License Agreement â€” Stevens Institute of Technology Restatement of Previously Issued Financial Statements Subsequent Events Accumulated Amortization Accumulated depreciation Less: imputed interest Less: current portion included in other current liabilities Remaining unamortized debt issuance costs Exercised Forfeited / Canceled Number Outstanding, Forfeited Warrants \[Member\] Warrant \[Member\] Options \[Member\] Stock options \[Member\] Equity Option \[Member\] Unvested restricted common stock \[Member\] Non-compete agreement with founder \[Member\] Website domain name and trademark \[Member\] Technology and licensed patents \[Member\] Computer and lab equipment \[Member\] Network Equipment \[Member\] Furniture and Fixtures \[Member\] Software \[Member\] Leasehold Improvements \[Member\] Loans Payable \[Member\] Debt Issuance Costs \[Member\] August 18, 2020 \[Member\] November 15, 2021 \[Member\] June 16, 2022 \[Member\] Minimum \[Member\] Maximum \[Member\] 0.00 â€” 1.00 \[Member\] 1.00 â€” 2.00 \[Member\] 2.00 â€” 3.00 \[Member\] 3.00 â€” 6.00 \[Member\] 6.00 â€” 8.00 \[Member\] 8.00 â€” 12.00 \[Member\] Research and development \[Member\] Selling and marketing \[Member\] General and administrative \[Member\] General and administrative \[Member\] Financial Instrument \[Axis\] Customer \[Axis\] Scenario \[Axis\] Title and Position \[Axis\] Business Acquisition \[Axis\] Related and Nonrelated Parties \[Axis\] Investment, Name \[Axis\] Sale of Stock \[Axis\] Plan Name \[Axis\] Derivative Instrument \[Axis\] Agreement \[Axis\] Revision of Prior Period \[Axis\] Subsequent Event Type \[Axis\] Incorporation date Working capital Cash equivalents invested in mutual funds Provision for credit losses Value of assets Cash and cash equivalent Federal income tax rate Tax-effective carryforwards Carryforwards assumed tax rate Net deferred tax assets Capitalized research and development expenditures Intangible asset Valuation allowance increased Federal R&D credit carryforwards Amortization expense of intangible assets Depreciation expense Accrued interest payable Initial principal amount Original issue discount Cash for streeterville convertible note Interest percentage Annual interest rate Received fee Other issuance costs Redeem of streeterville convertible note Redemption amount Closing trade percentage Conversion price equal rate Common Stock exceeding percentage Market capitalization percentage Minimum market capitalization value Aggregate sales of Conversion percentage Outstanding balance percentage Accruing outstanding balance percentage Maturity date Original issue discount Outstanding balance Acquire, percentage of AI firm Bears simple interest Outstanding receivable Purchase price percentage Total purchase price \(in Dollars\) Converted shares Shares converted Fair market valuation contemplated shares Conversion shares Warrants to purchase shares Purchase of warrants Purchased shares Aggregate purchase price \(in Dollars\) Preferred dividends percentage Conversion price per share \(in Dollars per share\) Warrants term Accrued dividend shares Additional paid in capital \(in Dollars\) Price of per share \(in Dollars per share\) Cash Paid \(in Dollars\) Sales of equity \(in Dollars\) Aggregate offering price \(in Dollars\) Sale of stock units Average price \(in Dollars per share\) Net proceeds \(in Dollars\) Issued warrants shares Exercise price per share \(in Dollars per share\) Issued warrants price \(in Dollars\) Warrants \(in Dollars\) Forfeited percentage Grant incentive stock options Number of shares available for issue Number of shares available for issue Reserves increased shares Total unrecognized compensation cost \(in Dollars\) Expected to be recognized over a period Stock-based compensation \(in Dollars\) Net expense \(in Dollars\) Stock-based compensation expense \(in Dollars\) Issued shares forfeited Vesting percentage Realization of stock-based compensation expense \(in Dollars\) Number of shares issued for services Consideration agreement, description Intangible and goodwill assets Cumulative redemption amount \(in Dollars\) Agreement amount \(in Dollars\) Basis of Presentation and Principles of Consolidation Reclassifications Risk and Uncertainties Use of Estimates Cash and Cash Equivalents Revenue Accounts Receivable Provision for Credit Losses Inventory Operating Leases Business Combinations and Valuation of Goodwill Property and Equipment Impairment of Long-Lived Assets Fair Value of Financial Instruments Research and Development Costs Software Development Costs Stock-Based Compensation Income Taxes Loss Per Share Recently Issued Accounting Pronouncements Corporate History \[Member\] Customer \[Member\] Unsecured Promissory Note \[Member\] Streeterville \[Member\] Forecast \[Member\] Streeterville Unsecured Note \[Member\] Streeterville Capital, LLC \[Member\] Millionways \[Member\] Unsecured Promissory Notes \[Member\] MW Agreement \[Member\] MW Note \[Member\] BV Advisory \[Member\] BV Advisory Partners, LLC \[Member\] Unissued QPhoton Shares \[Member\] Unissued QPhoton Warrants \[Member\] Capital Stock \[Member\] Preferred Warrants \[Member\] Falcon Capital Partners \[Member\] Greenfield Children, LLC, \[Member\] Other Offerings \[Member\] Restricted Stock Units \[Member\] Restricted Stock Units \(RSUs\) \[Member\] QPhoton Merger \[Member\] QPhoton Warrants \[Member\] 2019 Equity and Incentive Plan \[Member\] 2022 Equity and Incentive Plan \[Member\] Separation Agreement Shares \[Member\] 2023 Incentive Shares \[Member\] Retention Incentive Shares \[Member\] Previously Reported \[Member\] Series A Convertible Preferred \[Member\] Subsequent Event \[Member](#)

Derivative Contract [Domain] Stock-Based Compensation (Details) [Table] Stock-based Compensation [Line Items] Revision of Prior Period [Domain] Restatement of Previously Issued Financial Statements (Details) [Table] Error Corrections and Prior Period Adjustments Restatement [Line Items] Subsequent Event Type [Domain] Subsequent Events (Details) [Table] Issued Events [Line Items] Aggregate offering price. Agreement amount. Expiration date of warrants or rights. Common stock exceeding percentage. Consideration agreement description. Represent the estimated useful life. Number of shares fair market valuation contemplated. Financial liabilities, current, net of issuance costs. The entire disclosure of financial liabilities. Forfeited Percentage. The entire disclosure of license agreement Institute of technology. Market capitalization percentage Amount of minimum market capitalization value. Debt instrument discount issued. The cash inflow proceeds raised from financial liabilities, net of issuance costs. Disclosure of accounting policy for provision for credit losses. Represent the amount of difference in stock-based compensation for services on the statement of stockholdersâ€™ equity as compared to the statement of cash flows. Amount of reclassification of Series A preferred stock to mezzanine equity. Tabular disclosure of outstanding promissory notes payable to financial liabilities. Weighted average remaining contractual term for forfeited portions of options outstanding and currently exercisable or convertible, in 'PnYmMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Weighted average remaining contractual term for vested portions of options outstanding and currently exercisable or convertible, in 'PnYmMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Weighted average remaining contractual life (years), exercised. Represent the amount of stock-based compensation for services. Stock-based compensation expense for services. Amount of valuation of derivative associated with convertible financial liability. The percentage of vesting percentage. Working capital deficit. Shares Issued, Shares, Share-Based Payment Arrangement, Forfeited Assets [Abstract] Deferred Tax Assets, Net Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures in Period Earnings Per Share, Diluted Retained Earnings [Member] Amortization of Debt Discount (Premium) Three Point Zero Zero To Six Point Zero Zero Member Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate Consideration Agreement Description Other Offerings Member Market Capitalization Percentage Share-Based Payment Arrangement, Restricted Stock Unit, Activity [Table Text Block] Schedule Of Stock Based Compensation Expense For Services Expenses For Both Shares Issued And Stock Option Awards Granted Abstract Series B Preferred Stock [Member] Weighted Average Number of Shares Outstanding, Basic Finite-Lived Intangible Assets, Net Capital Stock Member Class Of Warrant Or High Expiration Date Increase (Decrease) in Other Noncurrent Liabilities Mezzanine Equity Member Shares Issued, Shares, Share-Based Payment Arrangement, before Forfeiture Financial Instruments Subject to Mandatory Redemption, Settlement Terms, Share Value, Amount, Current Deposits, Money Market Deposits Debt Instrument, Redemption Price, Percentage Fair Value Measurement, Policy [Policy Text Block] Finite-Lived Intangible Asset, Expected Amortization, Year Two Stock Issued During Period, Shares, New Issues Investment Income, Interest Schedule Of Property And Equipment Abstract Other Assets, Noncurrent Schedule Of Outstanding Promissory Notes Payable To Financial Liabilities Table Text Block Six Point Zero Zero To Eight Point Zero Zero Member Additional Paid in Capital Operating Expenses [Abstract] Supplemental Cash Flow Information [Abstract] Net Cash Provided by (Used in) Operating Activities [Abstract] Shares Issued, Value, Share-Based Payment Arrangement, after Forfeiture Equity, Attributable to Parent [Abstract] Sharebased Compensation Arrangement By Sharebased Payment Award Options Granted Weighted Average Remaining Contractual Term1 Preferred Stock, Shares Issued Financing Receivable, Nonaccrual to Outstanding, Percent Separation Agreement Shares Member Lessee, Operating Lease, Liability, to be Paid, Maturity [Table Text Block] Share-Based Compensation Arrangement by Share-Based Payment Award, Purchase Price of Common Stock, Percent Forecast [Member] Minimum [Member] Schedule of Stockholders' Equity Note, Warrants or Rights [Table Text Block] Common Stock, Shares, Outstanding Share-Based Payment Arrangement, Option, Exercise Price Range, Shares Outstanding Realization Of Stock Based Compensation Expense Retained Earnings (Accumulated Deficit) License Agreement Stevens Institute Of Technology Text Block November152021 Member Lessee, Operating Lease, Liability, to be Paid, Year Three Depreciation Net Cash Provided by (Used in) Investing Activities Common Stock Exceeding Percentage Payments to Acquire Property, Plant, and Equipment Share-Based Payment Arrangement [Policy Text Block] Preferred Stock, Shares Authorized Interest Paid, Excluding Capitalized Interest, Operating Activities Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Amount Shares Issued, Shares, Share-Based Payment Arrangement, after Forfeiture Preferred Stock, Shares Outstanding Property, Plant and Equipment, Net Prepaid Expense and Other Assets, Current Maximum [Member] Income Tax, Policy [Policy Text Block] Common Stock, Shares Authorized Preferred Stock, Dividend Rate, Percentage Short-Term Debt, Percentage Bearing Fixed Interest Rate Two Point Zero Zero To Three Point Zero Zero Member Operating Lease, Liability, Noncurrent Accounts Receivable [Policy Text Block] Operating Lease, Weighted Average Discount Rate, Percent Stock and Warrants Issued During Period, Value, Preferred Stock and Warrants Error Correction [Text Block] Preferred Stock [Member] Share-Based Compensation Arrangement by Share-Based Payment Award, Number of Shares Available for Grant Network Equipment Member Share-Based Payment Arrangement, Expense Unsecured Promissory Notes Member Increase (Decrease) in Operating Capital [Abstract] Net Cash Provided by (Used in) Financing Activities [Abstract] Additional Paid-in Capital [Member] Financing Receivable, Allowance for Credit Loss, Current Class of Warrant or Right, Number of Securities Called by Warrants or Rights Stock Redeemed or Called During Period, Value Temporary Equity, Carrying Amount, Attributable to Parent Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Term Net Cash Provided by (Used in) Investing Activities [Abstract] Sharebased Compensation Arrangement By Sharebased Payment Award Options Forfeited Weighted Average Remaining Contractual Term1 Finite-Lived Intangible Asset, Expected Amortization, Year One Unissued QPhoton Warrants Member Two Thousand And Twenty Two Equity And Incentive Plan Member Schedule Of Grant Date Fair Value Of Stock Options Granted Abstract Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Excluding Exchange Rate Effect Depreciation, Depletion and Amortization, Nonproduction Significant Accounting Policies [Text Block] Goodwill Property, Plant and Equipment, Useful Life Gain (Loss) on Investments Technology And Licensed Patents Member Lessee, Operating Lease, Liability, to be Paid, Year Two Common Stock, Capital Shares Reserved for Future Issuance Related Party Transactions Disclosure [Text Block] Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Exercisable, Number Valuation Of Derivative Associated With Convertible Financial Liability Net Cash Provided by (Used in) Operating Activities Goodwill and Intangible Assets Disclosure [Text Block] Unsecured Promissory Note Member Working Capital Deficit Effective Income Tax Rate Reconciliation, Change in Enacted Tax Rate, Percent Sharebased Compensation Arrangement By Sharebased Payment Award Options Weighted Average Remaining Contractual Life Years Exercised Payments of Financing Costs Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Exercisable, Weighted Average Remaining Contractual Term Stock Issued During Period Shares Share Based Compensation For Services Warrant, Exercise Price, Increase Share-Based Compensation Arrangement by Share-Based Payment Award, Shares Purchased for Award Financial Liabilities Current Net Of Issuance Costs Equity Option [Member] Payments of Stock Issuance Costs Preferred Stock, Convertible, Conversion Price Finite-Lived Intangible Assets, Gross Equity, Attributable to Parent Computer Equipment [Member] Other Expenses Property, Plant and Equipment, Policy [Policy Text Block] Furniture and Fixtures [Member] Payments of Dividends ATMAgreement Member Cash and Cash Equivalents, Policy [Policy Text Block] Preferred Stock [Text Block] Fair Value Adjustment of Warrants Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount Lease, Cost [Table Text Block] Net Income (Loss) Available to Common Stockholders, Basic Contingencies Disclosure [Text Block] Additional Paid in Capital, Preferred Stock Agreement Axis Property, Plant and Equipment Disclosure [Text Block] Other Assets Selling and Marketing Expense [Member] Share-Based Compensation Arrangement by Share-Based Payment Award, Shares Issued in Period Previously Reported [Member] Lessee, Operating Lease, Liability, to be Paid Two Thousand And Nineteen Equity And Incentive Plan Member Share-Based Payment Arrangement, Option, Activity [Table Text Block] Valuation Allowance, Deferred Tax Asset, Increase (Decrease), Amount Schedule of Earnings Per Share, Basic and Diluted [Table Text Block] Sale of Stock, Number of Shares Issued in Transaction Product Warranty Expense Property, Plant and Equipment [Table Text Block] Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Operating Expenses Zero Point Zero Zero To One Point Zero Zero Member Trademarks and Trade Names [Member] Statement of Financial Position [Abstract] Cash and Cash Equivalents, at Carrying Value Research and Development Expense, Policy [Policy Text Block] Aggregate Offering Price Preferred Class A [Member] Lessee, Operating Lease, Liability, to be Paid, Year One Deferred Tax Assets, Operating Loss Carryforwards Stock Issued During Period, Shares, Conversion of Convertible Securities Accrued Liabilities Increase (Decrease) in Accounts Receivable Convertible Debt Proceeds from Issuance of Common Stock Conversion of Stock, Shares Issued August182020 Member Debt Instrument, Interest Rate, Effective Percentage Impairment or Disposal of Long-Lived Assets, Policy [Policy Text Block] Lessee, Operating Lease, Liability, Undiscounted Excess Amount Debt Conversion, Converted Instrument, Warrants or Options Issued Preferred Warrants Member Share-Based Payment Arrangement, Noncash Expense Corporate History Member Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Remaining Contractual Term Dividends, Preferred Stock, Cash Inventory, Net Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Volatility Rate Use of Estimates, Policy [Policy Text Block] Streeterville Capital LLCMember Commitments and Contingencies Series A Preferred Stock [Member] Nonoperating Income (Expense) [Abstract] Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Dividend Rate Common Stock, Value, Issued Proceeds from Issuance of Warrants BVAdvisory Member BVAdvisory Partners LLCMember Amortization of Debt Issuance Costs Provision For Credit Losses Policy Text Block Lessee, Leases [Policy Text Block] Weighted Average Number of Shares Outstanding, Basic [Abstract] Operating Lease, Payments Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Weighted Average Remaining Contractual Term Share-Based Compensation Arrangement by Share-Based Payment Award, Non-Option Equity Instruments, Exercised Increase (Decrease) in Prepaid Expense and Other Assets Stock Dividends, Shares Original Issue Discount Stock Issued During Period, Value, New Issues Loans, Notes, Trade and Other Receivables Disclosure [Text Block] Loan Payable Member Share-Based Payment Arrangement, Option, Exercise Price Range [Table Text Block] Agreement Amount Statement of Stockholders' Equity [Abstract] Finite-Lived Intangible Asset, Expected Amortization, Year Five Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Grants in Period, Weighted Average Exercise Price Income Tax Expense (Benefit) Amortization of Intangible Assets Research and Development Expense [Member] Increase (Decrease) in Accrued Liabilities and Other Operating Liabilities Income Statement [Abstract] Payments to Acquire Loans Receivable Payments for Repurchase of Preferred Stock and Preference Stock Lessee, Operating Leases [Text Block] June162022 Member Investment Income, Investment Expense New Accounting Pronouncements, Policy [Policy Text Block] Stockbased Compensation Expense For Services APIC, Share-Based Payment Arrangement, Increase for Cost Recognition Earnings Per Share, Basic Schedule of Finite-Lived Intangible Assets, Future Amortization Expense [Table Text Block] Forfeited Percentage Minimum Market Capitalization Value Assets Liabilities Research and Development Expense QPhoton Merger Member Streeterville Member Eight Point Zero Zero To Twelve Point Zero Zero Member Subsequent Events [Text Block] Stock Issued During Period, Shares, Issued for Services Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Gross Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Exercise Price Increase (Decrease) in Inventories MWNNote Member Derivative Liability, Current Financing Receivable, after Allowance for Credit Loss, Current Inventory, Policy [Policy Text Block] Debt Issuance Costs Member Conversion of Stock, Shares Converted Preferred Stock, Redemption Amount Warrants and Rights Outstanding, Term Software Development [Member] Net Cash Provided by (Used in) Financing Activities Accounts Payable, Current Financial Services Liabilities Debt Instrument, Issued, Principal Reclassifications of Temporary to Permanent Equity Property, Plant and Equipment, Gross Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Exercisable, Weighted Average Exercise Price Proceeds from Issuance or Sale of Equity MWAgreement Member Greenfield Children LLCMember Debt Instrument, Unamortized Discount (Premium) and Debt Issuance Costs, Net Net Income (Loss) Attributable to Parent [Abstract] Subsequent Event [Member] Warrant [Member] Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment Financial Liabilities Text Block Stock Issued During Period, Shares, Purchase of Assets Lessee, Operating Lease, Liability, to be Paid, Year Four Leasehold Improvements [Member] Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year Restricted Stock [Member] Operating Income (Loss) Selling and Marketing Expense Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Number Operating Lease, Liability Debt Instrument, Convertible, Threshold Percentage of Stock Price Trigger Deferred Tax Assets, Tax Credit Carryforwards, Research Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeited in Period Sale of Stock, Price Per Share Revenue from Contract with Customer [Policy Text Block] Common Stock [Member] Net Income (Loss) Available to Common Stockholders, Diluted Reclassification, Comparability Adjustment [Policy Text Block] Research, Development, and Computer Software, Policy [Policy Text Block] Statement of Cash Flows [Abstract] Debt Instrument, Term Class of Warrant or Right, Outstanding Business Combinations Policy [Policy Text Block] Proceeds Raised From Financial Liabilities Net Of Issuance Costs Income Tax Disclosure [Text Block] Operating Lease, Liability, Current Noncash Investing and Financing Items [Abstract] Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercises in Period Equity Method Investment, Ownership Percentage Selling, General and Administrative Expense Schedule Of Warrants Outstanding Abstract Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table Text Block] Selling, General and Administrative Expenses [Member] Financing Receivable, Nonaccrual, Percent Past Due Retention Incentive Shares Member Liabilities, Current [Abstract] Supplemental Deferred Purchase Price Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block] Deferred Tax Liabilities, Deferred Expense, Capitalized Research and Development Costs Fair Market Valuation Contemplated Shares QPhoton Warrants Member Intangible Assets, Net (Including Goodwill) Stock Repurchased During Period, Value General and Administrative Expense [Member] Operating Lease, Weighted Average Remaining Lease Term Share-Based Payment Arrangement [Text Block] One Point Zero Zero To Two Point Zero Zero Member Derivative Liability, Noncurrent Vesting Percentage Proceeds from Fees Received Schedule Of Stock Based Compensation Expense Related To Common Stock Options And Restricted Shares Of Common Stock Abstract Unusual Risks and Uncertainties [Table Text Block] Schedule of Intangible Assets and Goodwill [Table Text Block] Earnings Per Share [Text Block] Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period Business Acquisition, Percentage of Voting Interests Acquired Nature of Operations [Text Block] Revenues Share Price Stock Issued During Period, Value, Conversion of Convertible Securities Falcon Capital Partners Member Restricted Stock Units (RSUs) [Member] Increase (Decrease) in Contract with Customer, Liability Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Exercises in Period, Weighted Average Exercise Price Contract with Customer, Liability, Current Common Stock, Par or Stated Value Per Share Earnings Per Share, Policy [Policy Text Block] Common Stock, Shares, Issued Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Forfeitures in Period, Weighted Average Exercise Price Reclassification Of Series APreferred Stock To Mezzanine Equity Series AConvertible Preferred Member Other Liabilities, Current Increase (Decrease) in Other Noncurrent Assets Weighted Average Number of Shares Outstanding, Diluted Deferred Tax Liabilities, Intangible Assets Gross Profit Stock Redeemed or Called During Period, Shares Schedule of Share-Based Payment Award, Stock Options, Valuation Assumptions [Table Text Block] Financial Liabilities Fair Value Disclosure Intangible Assets, Net (Excluding Goodwill) Basis of Presentation and Significant Accounting Policies [Text Block] Accounts Receivable, after Allowance for Credit Loss, Current Finite-Lived Intangible Assets, Accumulated Amortization Schedule Of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti Dilutive Abstract Assets, Current [Abstract] Customer Member millionways Member Two Zero Two Three Incentive Shares Member Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price Liabilities, Current Finite-Lived Intangible Asset, Expected Amortization, Year Four Unissued QPhoton Shares Member Increase (Decrease) in Accounts Payable Share-Based Payment Arrangement, Option, Exercise Price Range, Shares Exercisable Share-Based Payment Arrangement, Option, Exercise Price Range, Upper Range Limit Proceeds from Debt, Net Of Issuance Costs Accrued Liabilities, Current Liabilities and Equity [Abstract] Shares, Outstanding Finite-Lived Intangible Asset, Expected Amortization, Year Three Debt Conversion, Converted Instrument, Rate Lessee, Operating Lease, Liability, to be Paid, Remainder of Fiscal Year Effective Income Tax Rate Reconciliation, at Federal Statutory Income Tax Rate, Percent Cash Equivalents, at Carrying Value Cost of Revenue Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract] Commercial Paper, Average Outstanding Provision for Other Credit Losses Estimated Useful Life Schedule Of Amounts Related To Intangible Assets Abstract Class of Warrant or Right, Exercise Price of Warrants or Rights Preferred Stock, Value, Issued Liabilities and Equity Non Compete Agreement With Founder Member Debt Instrument, Annual Principal Payment Preferred Stock, Par or Stated Value Per Share Preferred Stock Dividends, Income Statement Impact Operating Lease, Right-of-Use Asset Assets, Current Streeterville Unsecured Note Member EX-101.PRE 11 qubt-20240930 pre.xml XBRL PRESENTATION FILE XML 13 R1.htm IDEA: XBRL DOCUMENT v3.24.3 Cover - shares 9 Months Ended Sep. 30, 2024 Nov. 04, 2024 Document Information [Line Items] A A Document Type 10-Q A Document Quarterly Report true A Document Transition Report false A Entity Interactive Data Current Yes A Amendment Flag false A

Document Period End Date Sep. 30, 2024 Â Document Fiscal Year Focus 2024 Â Document Fiscal Period Focus Q3 Â Entity Information [Line Items] Â Â Entity Registrant Name QUANTUM COMPUTING INC. Â Entity Central Index Key 0001758009 Â Entity File Number 001-40615 Â Entity Tax Identification Number 82-4533053 Â Entity Incorporation, State or Country Code DE Â Current Fiscal Year End Date --12-31 Â Entity Current Reporting Status Yes Â Entity Shell Company false Â Entity Filer Category Non-accelerated Filer Â Entity Small Business true Â Entity Emerging Growth Company false Â Entity Incorporation, Date of Incorporation Jul. 20, 2018 Â Entity Contact Personnel [Line Items] Â Â Entity Address, Address Line One 5 Marine View Plaza Â Entity Address, Address Line Two Suite 214 Â Entity Address, City or Town Hoboken Â Entity Address, State or Province NJ Â Entity Address, Postal Zip Code 07030 Â Entity Phone Fax Numbers [Line Items] Â Â City Area Code (703) Â Local Phone Number 436-2121 Â Entity Listings [Line Items] Â Â Title of 12(b) Security Common Stock, par value \$.0001 Â QUBTÂ The Nasdaq Stock Market LLC Â Trading Symbol QUBT Â Security Exchange Name NASDAQ Â Entity Common Stock, Shares Outstanding Â 99,086,476 X - DefinitionBoolean flag that is true when the XBRL content amends previously-filed or accepted submission. + ReferencesNo definition available. + Details Name: dei_AmendmentFlag Namespace Prefix: dei_ Data Type: xbrli:booleanItem Type Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei_CityAreaCode Namespace Prefix: dei_ Data Type: xbrli:normlizedStringItem Type Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format --MM-DD. + ReferencesNo definition available. + Details Name: dei_CurrentFiscalYearEndDate Namespace Prefix: dei_ Data Type: xbrli:gMonthDayItem Type Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalPeriodFocus Namespace Prefix: dei_ Data Type: dei:fiscalPeriodItem Type Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalYearFocus Namespace Prefix: dei_ Data Type: xbrli:gYearItem Type Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: dei_DocumentInformationLineItems Namespace Prefix: dei_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei_DocumentPeriodEndDate Namespace Prefix: dei_ Data Type: xbrli:dateTimeItem Type Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a quarterly report. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Form 10-Q -Number 240 -Section 308 -Subsection a + Details Name: dei_DocumentQuarterlyReport Namespace Prefix: dei_ Data Type: xbrli:booleanItem Type Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1 + Details Name: dei_DocumentTransitionReport Namespace Prefix: dei_ Data Type: xbrli:booleanItem Type Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei_DocumentType Namespace Prefix: dei_ Data Type: dei:submissionTypeItem Type Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei_EntityAddressLine1 Namespace Prefix: dei_ Data Type: xbrli:normlizedStringItem Type Balance Type: na Period Type: duration X - DefinitionAddress Line 2 such as Street or Suite number + ReferencesNo definition available. + Details Name: dei_EntityAddressLine2 Namespace Prefix: dei_ Data Type: xbrli:normlizedStringItem Type Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei_EntityAddressCityOrTown Namespace Prefix: dei_ Data Type: xbrli:normlizedStringItem Type Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei_EntityAddressPostalZipCode Namespace Prefix: dei_ Data Type: xbrli:normlizedStringItem Type Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei_EntityAddressStateOrProvince Namespace Prefix: dei_ Data Type: dei:stateOrProvinceItem Type Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItem Type Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei_EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: dei_EntityContactPersonnelLineItems Namespace Prefix: dei_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei_EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItem Type Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityEmergingGrowthCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItem Type Balance Type: na Period Type: duration X - DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. + ReferencesNo definition available. + Details Name: dei_EntityFileNumber Namespace Prefix: dei_ Data Type: dei:fileNumberItem Type Balance Type: na Period Type: duration X - DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityFilerCategory Namespace Prefix: dei_ Data Type: dei:filerCategoryItem Type Balance Type: na Period Type: duration X - DefinitionDate when an entity was incorporated + ReferencesNo definition available. + Details Name: dei_EntityIncorporationDateOfIncorporation Namespace Prefix: dei_ Data Type: xbrli:dateTimeItem Type Balance Type: na Period Type: duration X - DefinitionTwo-character EDGAR code representing the state or country of incorporation. + ReferencesNo definition available. + Details Name: dei_EntityIncorporationStateCountryCode Namespace Prefix: dei_ Data Type: dei:edgarStateCountryItem Type Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: dei_EntityInformationLineItems Namespace Prefix: dei_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-T -Number 232 -Section 405 + Details Name: dei_EntityInteractiveDataCurrent Namespace Prefix: dei_ Data Type: dei:yesNoItem Type Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: dei_EntityListingsLineItems Namespace Prefix: dei_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: dei_EntityPhoneFaxNumbersLineItems Namespace Prefix: dei_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityRegistrantName Namespace Prefix: dei_ Data Type: xbrli:normlizedStringItem Type Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityShellCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItem Type Balance Type: na Period Type: duration X - DefinitionIndicates that the company is a Smaller Reporting Company (SRC). + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntitySmallBusiness Namespace Prefix: dei_ Data Type: xbrli:booleanItem Type Balance Type: na Period Type: duration X - DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityTaxIdentificationNumber Namespace Prefix: dei_ Data Type: dei:employerIdItem Type Balance Type: na Period Type: duration X - DefinitionLocal phone number for entity. + ReferencesNo definition available. + Details Name: dei_LocalPhoneNumber Namespace Prefix: dei_ Data Type: xbrli:normlizedStringItem Type Balance Type: na Period Type: duration X - DefinitionTitle of a 12(b) registered security. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b + Details Name: dei_Security12bTitle Namespace Prefix: dei_ Data Type: dei:securityTitleItem Type Balance Type: na Period Type: duration X - DefinitionName of the Exchange on which a security is registered. + ReferencesReference 1: http://www.xbrli.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1 + Details Name: dei_SecurityExchangeName Namespace Prefix: dei_ Data Type: dei:edgarExchangeCodeItem Type Balance Type: na Period Type: duration X - DefinitionTrading symbol of an instrument as listed on an exchange. + ReferencesNo definition available. + Details Name: dei_TradingSymbol Namespace Prefix: dei_ Data Type: dei:tradingSymbolItem Type Balance Type: na Period Type: duration XML 14 R2.htm IDEA: XBRL DOCUMENT v3.24.3 Condensed Consolidated Balance Sheets (Unaudited) - USD (\$\$) in Thousands Sep. 30, 2024 Dec. 31, 2023 Current assets: Â Â Cash and cash equivalents \$ 3,064 \$ 2,059 Accounts receivable, net 63 65 Inventory 241 73 Loans receivable, net 306 279 Prepaid expenses and other current assets 238 180 Total current assets 3,912 2,656 Property and equipment, net 5,826 2,870 Operating lease right-of-use assets 1,622 1,051 Intangible assets, net 9,748 12,076 Goodwill 55,573 55,573 Other non-current assets 129 129 Total assets 76,810 74,355 Current liabilities: Â Â Accounts payable 923 1,462 Accrued expenses 539 639 Financial liabilities, net of issuance costs 1,925 Deferred revenue 48 Other current liabilities 921 786 Total current liabilities 2,431 4,812 Financial liabilities, net of issuance costs 6,514 Derivative liability 666 Operating lease liabilities 1,297 840 Total liabilities 10,908 5,652 Contingencies (see Note 10) Mezzanine equity 5,463 Stockholders' equity: Â Â Preferred stock, \$0.0001 par value, 1,550 shares Series A Preferred authorized; 993 thousand and 1,490 thousand shares issued and outstanding as of September 30, 2024 and December 31, 2023, respectively; 3,080 thousand shares of Series B Preferred Stock authorized; no shares issued and outstanding as of September 30, 2024 and December 31, 2023 Common stock, \$0.0001 par value, 250,000 thousand shares authorized; 94,416 thousand and 77,451 thousand shares issued and outstanding as of September 30, 2024 and December 31, 2023, respectively 9 8 Additional paid-in capital 209,675 200,635 Accumulated deficit (149,245) (131,940) Total stockholders' equity 60,439 68,703 Total liabilities and mezzanine and stockholders' equity \$ 76,810 \$ 74,355 X - DefinitionFinancial liabilities, current, net of issuance costs. + ReferencesNo definition available. + Details Name: qubt_FinancialLiabilitiesCurrentNetOfIssuanceCosts Namespace Prefix: qubt_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrli.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10 + Details Name: us-gaap_AccountsPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: http://www.xbrli.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2 + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable, pertaining to taxes that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock. + ReferencesReference 1: http://www.xbrli.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrli.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AdditionalPaidInCapital Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit. + ReferencesReference 1: http://www.xbrli.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrli.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3: http://www.xbrli.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrli.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrli.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://www.xbrli.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 33 -Subparagraph (bb) -Publisher FASB -URI

<https://asc.fasb.org/1943274/2147481203/810-10-50-3>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25](http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(g\)\(1\)\(iii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 12: <http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 13: <http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12>Reference 14: [http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(12\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(8\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 16: [http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(18\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 17: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1)Reference 18: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1)Reference 19: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1)Reference 20: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iii\)\(A\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A 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-URI https://asc.fasb.org/1943274/2147481404/852-10-50-7](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7)Reference 29: [http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30)Reference 30: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-03\(11\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1) + Details Name: us-gaap Assets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit, classified as current. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(bb\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3](http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI 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<http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(9\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 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-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7) + Details Name: us-gaap AssetsCurrentNamespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap AssetsCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(1\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1](http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1)Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4> + Details Name: us-gaap CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionRepresents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-03\(17\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(25\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(19\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(15\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1) + Details Name: us-gaap CommitmentsAndContingencies Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: <http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(22\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1) + Details Name: us-gaap CommonStockValue Namespace Prefix: us-gaap_ Data Type

Period Type: instant X - DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. + ReferencesReference 1:

expense, 5,447 6,337 17,101 19,816 Loss from operations (5,438) (6,611) (17,023) (19,664) Non-operating income (expense) \$ 6 \$ 6 \$ 6 \$ 6 Interest and other income 70 126 180 219 Interest expense, net (307) (369) (462) (1,334) Change in value of warrant liabilities 13 384 [2] Loss before income tax provision (5,675) (6,841) (17,305) (20,395) Income tax provision Net loss (5,675) (6,841) (17,305) (20,395) [2] Less: Series A convertible preferred stock dividends (215) (646) Net loss attributable to common stockholders \$ (5,675) \$ (7,056) \$ (17,305) \$ (21,041) Loss per share â€” basic (in Dollars per share) \$ (0.06) \$ (0.1) \$ (0.19) \$ (0.33) Loss per share â€” diluted (in Dollars per share) \$ (0.06) \$ (0.1) \$ (0.19) \$ (0.33) Weighted average shares used in computing net loss per common share â€” basic (in Shares) 93,048 71,588 89,063 64,246 Weighted average shares used in computing net loss per common share â€” dilutive (in Shares) 93,048 71,588 89,063 64,246 [1] As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statements of operations for the three and nine months ended September 30, 2023. [2] As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statement of cash flows for the nine months ended September 30, 2023.

X - DefinitionThe aggregate cost of goods produced and sold and services rendered during the reporting period. +

ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-48>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483621/220-10-S99-2>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480678/235-10-S99-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481687/323-10-50-3>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482907/825-10-50-28>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1A>Reference 7: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1A>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1A>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1A>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1A>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 15: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 16: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 17: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 18: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 19: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 20:

disclosureRef - Section S99 - Paragraph 1B - Subparagraph (SX 210.13-02(a)(4)(iv)) - Publisher FASB - URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 22: [http://www.xbrl.org/2003/role/disclosureRef - Topic 470 - SubTopic 10 - Name Accounting Standards Codification - Section S99 - Paragraph 1B - Subparagraph \(SX 210.13-02\(a\)\(5\)\) - Publisher FASB - URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23](http://www.xbrl.org/2003/role/disclosureRef - Topic 470 - SubTopic 10 - Name Accounting Standards Codification - Section S99 - Paragraph 1B - Subparagraph (SX 210.13-02(a)(5)) - Publisher FASB - URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23):

Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B + Details Name: us-gaap NetIncomeLossAvailableToCommonStockholdersBasic Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X -ReferencesNo definition available. + Details Name: us-gaap NonoperatingIncomeExpenseAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X -DefinitionGenerally recurring costs associated with normal operations except for the portion of these expenses which can be clearly related to production and included in cost of sales or services. Includes selling, general and administrative expense. + ReferencesNo definition available. + Details Name: us-gaap OperatingExpenses Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X -ReferencesNo definition available. + Details Name: us-gaap OperatingExpensesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X -DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap OperatingIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X -DefinitionThe amount of preferred stock dividends that is an adjustment to net income apportioned to common stockholders. + ReferencesNo definition available. + Details Name: us-gaap PreferredStockDividendsIncomeStatementImpact Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X -DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1 + Details Name: us-gaap ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X -DefinitionAmount of revenue recognized from goods sold, services rendered, insurance premiums, or other activities that constitute an earning process. Includes, but is not limited to, investment and interest income before deduction of interest expense when recognized as a component of revenue, and sales and trading gain (loss). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards 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Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b)

-Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 8>:

-Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NoncashInvestingAndFinancingItemsAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe cash outflow to reacquire preferred stock during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsForRepurchaseOfPreferredStockAndPreferenceStock Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionCash outflow in the form of capital distributions and dividends to common shareholders, preferred shareholders and noncontrolling interests. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfDividends Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow for loan and debt issuance costs. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfFinancingCosts Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow for the purchase of loan receivable arising from the financing of goods and services. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireLoansReceivable Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash inflow from the additional capital contribution to the entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfCommonStock Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 19 R7.htm IDEA: XBRL DOCUMENT 35.24.3 Nature of the Organization and Business 9 Months Ended Sep. 30, 2024 Nature of the Organization and Business [Abstract] Á Nature of the Organization and Business Note 1. Nature of the Organization and Business Á Corporate History Á Quantum Computing Inc. (áœQCiáœ or the áœQCompanyáœ) was formed in the State of Nevada on July 25, 2001, under its original name, Ticketcart, Inc., which was changed to Innovative Beverage Group Holdings, Inc. in 2009. The Company redomiciled to Delaware on February 22, 2018 and changed its name to Quantum Computing Inc. Effective July 20, 2018, the trading symbol for the Companyáœ™s common stock, par value \$0.0001, on the OTC Market changed from áœQBGHáœ to áœQUBTáœ. On July 15, 2021 the Company uplisted to The Nasdaq Stock Market LLC. On June 16, 2022, the Company merged with QPhoton, Inc. (áœQPhotonáœ), a developer of quantum photonic systems and related technologies and applications. Á Nature of Business Á QCi is an American company utilizing integrated photonics and non-linear quantum optics to deliver quantum and ancillary products for high-performance computing applications based on patented and proprietary photonics technology. QCiáœ™s products are designed to operate at room temperature and at very low power levels beyond the capabilities of other systems in the market. Our core photonics technology enables the execution of a go-to-market strategy which emphasizes accessibility and affordability. Our quantum machines enable subject matter experts (SMEs) and end users to deliver critical business solutions today in working with highly complex optimization problems. Á The Company initially focused on providing software tools and applications for several commercially available quantum computers. However, following the June 2022 merger with QPhoton and its associated intellectual property and engineering team, the Company now offers integrated high-performance quantum systems, ancillary products and services. Á The core of our quantum offerings today is our Entropy Quantum Computing (áœEQCáœ) technology. We have built room-temperature, photonic quantum information processing systems underpinned by a series of patented and patent pending technologies. Our technology, supported by professional services through our áœQQuantum Solutionsáœ offering, enables our clients to solve complex optimization problems. In addition, our engineering teams are using our leading-edge photonics technology to continue to enhance and further develop quantum LIDAR sensing and imaging systems, quantum-secured network solutions, and photonic chips. Á Going Concern Á The accompanying unaudited condensed consolidated financial statements have been prepared on a going concern basis, which contemplates the continuity of operations, the realization of assets, and the satisfaction of liabilities in the normal course of business. Cash and cash equivalents on hand were \$3.1 million as of September 30, 2024. The Company has historically incurred losses and negative cash flows from operations. As of September 30, 2024, the Company also had an accumulated deficit of \$149.2A million and working capital of \$1.5 million. Furthermore, we have not achieved a level of sales adequate to support the Companyáœ™s cost structure and may need to raise additional funds in the next 12 months by selling additional equity or incurring debt. It is managementáœ™s opinion that these conditions raise substantial doubt about our ability to continue as a going concern. X - DefinitionThe entire disclosure for the nature of an entity's business, major products or services, principal markets including location, and the relative importance of its operations in each business and the basis for the determination, including but not limited to, assets, revenues, or earnings. For an entity that has not commenced principal operations, disclosures about the risks and uncertainties related to the activities in which the entity is currently engaged and an understanding of what those activities are being directed toward. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 275 -Publisher FASB -URI https://asc.fasb.org/275/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1 + Details Name: us-gaap_NatureOfOperations Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 20 R8.htm IDEA: XBRL DOCUMENT 35.24.3 Significant Accounting Policies 9 Months Ended Sep. 30, 2024 Significant Accounting Policies [Abstract] Á Significant Accounting Policies Note 2. Significant Accounting Policies Á Basis of Presentation and Principles of Consolidation: Á The Company prepares its consolidated financial statements in conformity with accounting principles

generally accepted in the United States of America (â€œU.S. GAAPâ€) as determined by the Financial Accounting Standards Board (the â€œFASBâ€) including Accounting Standards Codification (â€œASCâ€) 810, Consolidation. The accompanying unaudited condensed consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. The Company's fiscal year end is December 31. A Reclassifications A Certain reclassifications have been made to the fiscal year 2023 audited consolidated financial statements to conform to the presentation in the three and nine months ended September 30, 2024. The reclassifications had no impact on consolidated net loss, total consolidated assets, total consolidated liabilities, or consolidated stockholders' equity. A Risk and Uncertainties A The Company is subject to certain risks and uncertainties and believes changes in any of the following areas could have a material adverse effect on the Company's future consolidated financial position or consolidated results of operations or cash flows: new product development, including market receptivity; litigation or claims against the Company based on intellectual property, patent, product regulation or other factors; competition from other products; general economic conditions; the ability to attract and retain qualified employees; and, ultimately, to sustain profitable operations. A Use of Estimates A These unaudited condensed consolidated financial statements have been prepared in accordance with U.S. GAAP, which requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the unaudited condensed consolidated financial statements, and the reported amounts of revenues and expenses during the reporting period. Some of the more significant estimates required to be made by management include the valuation of goodwill and intangible assets, deferred tax assets, equity-based transactions and liquidity assessment. Actual results may differ from these estimates. A Cash and Cash Equivalents A Highly liquid investments with a maturity of three months or less when purchased are considered to be cash equivalents. The Company maintains its cash in mutual funds and deposit and money market accounts with high quality financial institutions which, at times, may exceed federally insured limits. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million and \$2.1 million, respectively, in cash equivalents invested in mutual funds. The Company has not experienced any losses on these deposits and believes it is not exposed to significant credit risk on cash. A Revenue A The Company recognizes revenue in accordance with ASC 606 â€œRevenue from Contracts with Customersâ€, by analyzing contracts with its customers using a five-step approach: A 1. Identify the contract A 2. Identify the performance obligations A 3. Determine the transaction price A 4. Allocate the transaction price to the performance obligations A 5. Recognize revenue when performance obligations are satisfied A The revenue the Company has recognized in the nine months ended September 30, 2024 and 2023 were primarily derived from contracts to perform professional services. Revenue from time and materials-based contracts is recognized as the direct hours worked during the period times the contractual hourly rate, plus direct materials and other direct costs as appropriate, plus negotiated materials handling burdens, if any. Revenue from units-based contracts is recognized as the number of units delivered or performed during the period times the contractual unit price. Revenue from fixed price contracts is recognized as work is performed with estimated profits recorded on a percentage of completion basis. The Company has no cost-plus type contracts at this time. A The Company includes depreciation and amortization expenses in manufacturing overhead, which is a component of cost of revenue. However, at the present time manufacturing overhead, including depreciation and amortization expense related to production equipment, is not material and the primary components of cost of revenue are direct labor and direct materials, with a small amount of shipping expenses. A Accounts Receivable A Accounts receivable consists of amounts due from customers for work performed on contracts. The Company records accounts receivable at their net realizable value. Periodically the Company evaluates its accounts receivable to establish a provision for credit losses, when deemed necessary, based on the history of past write-offs, collections and current credit conditions. The customer accounts receivable as of September 30, 2024 are considered not fully collectible and thus the Company has recorded a provision for credit losses of \$3.5 thousand; the customer accounts receivable as of December 31, 2023 are considered fully collectible. A Provision for Credit Losses A The Company estimates losses on loans and other financial instruments in accordance with Accounting Standards Update (â€œASUâ€) 2016-13, Measurement of Credit Losses on Financial Instruments. ASU 2016-13 introduces the current expected credit losses (â€œCECLâ€) methodology for estimating allowances for credit losses. The CECL framework requires the Company to measure all expected credit losses for financial assets held at the reporting date based on historical experience, current conditions and reasonable and supporting forecasts. Under CECL, the allowance for credit losses is measured as the difference between the financial asset's cost basis and the net amount expected to be collected on the financial asset. CECL allows us to use information about past events including historical loan loss experience, current conditions, and reasonable and supportable forecasts to assess the collectability of the financial assets. The receivables for financial assets as of September 30, 2024 and December 31, 2023 are not considered fully collectible and thus management has recorded a provision for credit losses. See Note 9, Loan Receivable, for additional information. A Inventory A Inventory is stated at the lower of cost or net realizable value. Cost is determined on a standard cost basis which approximates actual cost on a first-in-first out method. Lower of cost or net realizable value is evaluated by considering obsolescence, excessive levels of inventory, deterioration and other factors. Adjustments to reduce the cost of inventory to its net realizable value, if required, are made for estimated excess, obsolescence or impaired inventory and are charged to cost of revenue. Once the cost of the inventory is reduced, a new lower-cost basis for that inventory is established, and subsequent changes in facts and circumstances do not result in the restoration or increase in that newly established cost basis. Factors influencing these adjustments include changes in demand, product life cycle and development plans, component cost trends, product pricing, physical deterioration and quality issues. Revisions to these adjustments would be required if these factors differ from our estimates. A Operating Leases A The Company determines if an arrangement is a lease at inception. Operating lease right-of-use (â€œROUâ€) assets are included in right-of-use assets, net on the consolidated balance sheets. The current and long-term components of operating lease liabilities are included in the current operating lease liabilities and noncurrent operating lease liabilities, respectively, on the consolidated balance sheets. A Operating lease ROU assets and operating lease liabilities are recognized based on the present value of the future minimum lease payments over the lease term. As most of the Company's leases do not provide an implicit rate, and the Company uses an incremental borrowing rate based on the information available at the commencement date in determining the present value of future payments. Certain leases may include options to extend or terminate the lease. Lease expense for minimum lease payments is recognized on a straight-line basis over the lease term. Leases with an initial term of 12 months or less are not recorded on the consolidated balance sheet. All of our operating leases are comprised of office space leases, and as of September 30, 2024 and December 31, 2023, we had no finance leases. A Business Combinations and Valuation of Goodwill A We account for business combinations under the acquisition method of accounting. This method requires the recording of acquired assets and assumed liabilities at their acquisition date fair values. The excess of the purchase price over the fair value of assets acquired and liabilities assumed is recorded as goodwill. Results of operations related to business combinations are included prospectively beginning with the date of acquisition and transaction costs related to business combinations are recorded with general and administrative expenses. A The Company reviews goodwill for impairment on an annual basis or whenever events or changes in circumstances indicate the carrying value may not be recoverable. The Company performs an annual impairment test by comparing the fair value of a reporting unit with its carrying amount. An impairment charge should be recognized for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. In addition, income tax effects from any tax-deductible goodwill carrying amount of the reporting unit should be considered when measuring the goodwill impairment loss, if applicable. The Company has determined that it has a single reporting unit for purposes of performing its goodwill impairment test. As the Company uses the market approach to assess impairment, its common stock price is an important component of the fair value calculation. If the Company's stock price continues to experience significant price and volume fluctuations, this will impact the fair value of the reporting unit and can lead to potential impairment in future periods. The Company performs its annual impairment test during the fourth quarter of each fiscal year. As of September 30, 2024, we had not identified any factors that indicated there was an impairment of our goodwill and determined that no additional impairment analysis was then required. A Property and Equipment A Property and equipment are stated at cost or contributed value. Depreciation of furniture, software and equipment is calculated using the straight-line method over their estimated useful lives, and leasehold improvements are amortized on a straight-line basis over the shorter of their estimated useful lives or the lease term. The cost and related accumulated depreciation of equipment retired or sold are removed from the accounts and any differences between the undepreciated amount and the proceeds from the sale are recorded as a gain or loss on sale of equipment. Maintenance and repairs are charged against expense as incurred. A Impairment of Long-Lived Assets A The Company has long-lived assets such as tangible property and equipment, identified intangible assets consisting of acquired patents and core technology. When events or changes in circumstances occur that could indicate the carrying value of long-lived assets may not be recoverable, the Company assesses recoverability by determining whether the undiscounted cash flows estimated to be generated by those assets are less than the carrying amounts of those assets. If the undiscounted cash flow is less, an impairment charge is recognized for the excess of the carrying amounts of these assets over the fair values. Fair values are determined by discounted future cash flows, appraisals or other methods. A During the three and nine months ended September 30, 2024 and 2023, the Company did not record any impairment from long-lived assets. A Fair Value of Financial Instruments A The carrying amount of certain financial instruments held by the Company, such as cash equivalents, accounts receivable, contract assets and liabilities, accounts payable, and accrued and other current liabilities, approximate fair value due to their short maturities. The carrying amount of the liabilities for the convertible preferred stock warrants represent their fair value. The carrying amounts of the Company's borrowings and lease liabilities approximate fair value due to the market interest rates that these obligations bear and interest rates currently available to the Company. A Fair value is defined as the exchange price that would be received for an asset or an exit price paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The fair value hierarchy defines a three-level valuation hierarchy for disclosure of fair value measurements as follows: A Level 1 Unadjusted quoted prices in active markets for identical assets or liabilities; A Level 2 Inputs other than quoted prices included within Level 1 that are observable, unadjusted quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the related assets or liabilities; and A Level 3 Unobservable inputs that are supported by little or no market activity for the related assets or liabilities. A The categorization of a financial instrument within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million of the \$3.1 million cash and cash equivalents and \$793 thousand of the \$2.1 million cash and cash equivalents, respectively, in Level 1 assets, comprised of U.S. Government mutual funds, and \$666 thousand and no carrying value, respectively, for Level 3 liabilities, which are comprised of derivative and warrant liabilities. See Note 11, Capital Stock â€œWarrantsâ€, for a full discussion of the warrant liability. A Research and Development Costs A Research and development costs include costs directly attributable to the conduct of research and development programs, including the cost of services provided by outside contractors, acquiring work-in-progress intellectual property, development, and mandatory compliance fees and contractual obligations. All costs associated with research and development are expensed as incurred. A Software Development Costs A Software development costs incurred subsequent to the establishment of technological feasibility for software intended to be sold, licensed or otherwise marketed to customers will be capitalized, but development costs not meeting the criteria for capitalization are expensed as incurred. With respect to internal use software, the Company will capitalize such development costs incurred during the application development stage, but development costs incurred prior to that stage will be expensed as incurred. No amortization expense will be recorded until the software is ready for its intended use. To date the Company has not incurred any material capitalizable software development costs. A Stock-based Compensation A Stock-based compensation expense for expected-to-vest awards is valued under the single-option approach and amortized on a straight-line basis, accounting for actual pre-vesting forfeitures as they occur. We utilize the Black-Scholes pricing model in order to determine the fair value of stock-based option awards. The Black-Scholes pricing model requires various highly subjective assumptions including volatility, expected option life, and risk-free interest rate. The assumptions used in calculating the fair value of share-based payment awards represent management's best estimates. These estimates involve inherent uncertainties and the application of management judgment. If factors change and different assumptions are used, our stock-based compensation expense could be materially different in the future. A Income Taxes A The Company uses the asset and liability method of accounting for income taxes. Deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to differences between the carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. Deferred tax expense or benefit is the result of changes in the deferred tax assets and liabilities. Valuation allowances are established when necessary to reduce deferred tax assets where, based upon the available evidence, management concludes that it is more-likely-than-not that the deferred tax assets will not be realized. Realization of deferred tax assets is also dependent upon future earnings, if any, the timing and amount of which are uncertain. A The Company records a liability for the uncertain tax positions taken or expected to be taken on the Company's tax return when it is more-likely-than-not that the tax position might be challenged despite the Company's belief that the tax return positions are fully supportable, and additional taxes will be due as a result. To the extent that the assessment of such tax positions changes, for example, based on the outcome of a tax audit, the change in estimate is recorded in the period in which the determination is made. The provision for income taxes includes the impact of provisions for uncertain tax positions. A Loss Per Share A Basic net loss per common share is computed by dividing net loss by the weighted average number of common shares outstanding during the period. Diluted net loss per common share is computed by dividing net loss attributable to common stockholders by the weighted average number of common shares outstanding, plus the number of additional common shares that would have been outstanding if the common share equivalents had been issued (computed using the â€œIf-Convertedâ€ method), unless the effect of such issuances would have been anti-dilutive. A Recently Issued Accounting Pronouncements A From time to time, new accounting pronouncements are issued by the FASB or other standard setting bodies that are adopted by the Company as of the specified effective date. Unless otherwise discussed, we believe that the impact of recently issued standards that are not yet effective will not have a material impact on our financial position or results of operations upon adoption. The Company has evaluated the recently implemented accounting standards and concluded that none currently apply to the Company. X - References: No definition available. + Details Name: us-gaap AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Definition The entire disclosure for all significant accounting policies of the reporting entity. + References: Reference 1: http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10 - Name Accounting Standards Codification -Section 50-Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483426/235-10-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContent + Details Name: us-gaap SignificantAccountingPoliciesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 21 R9.htm IDEA: XBRL DOCUMENT v3.24.3 Net Loss per Common Share 9 Months Ended Sep. 30, 2024 Net Loss per Common Share [Abstract] A Net Loss per Common Share Note 3. Net Loss per Common Share A The following table sets forth the computation of basic and diluted loss per share (in thousands, except per share data): A A Three Months Ended September 30, A A Nine Months Ended September 30, A A 2024 A A 2023 A A 2024 A A 2023 A Numerator: A A A A A A A A A A Net loss A \$(5,675) A \$(6,841) A \$(17,305) A \$(20,395) Less: Series A convertible preferred stock dividends A A A A (215) A A A (646) Net loss attributable to common stockholders â€œbasic and diluted A \$(5,675) A \$(6,841) A \$(17,305) A \$(20,395) Denominator: A A A A A A A A A A Weighted average shares used in computing net loss per common share â€œbasic and diluted A 93,048 A A 71,588 A A 89,063 A A

net loss per share for each period. X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for earnings per share. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/260/tableOfContentReference 3: https://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-2)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-3> + Details Name: us-gaap_EarningsPerShareTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 22 R10.htm IDEA: XBRL DOCUMENT v3.24.3 Income Taxes 9 Months Ended Sep. 30, 2024 Income Taxes [Abstract] Å Income Taxes Note 4. Income Taxes Å Income tax expense attributable to pretax loss from continuing operations differed from the amounts computed by applying the U.S. federal income tax rate of 21% to pretax loss from continuing operations as a result of both temporary and permanent differences in the U.S. GAAP vs tax treatment of certain types of expenses, including stock-based compensation, depreciation and amortization, research and development and meals and entertainment. Additionally, the Company's policy is to account for interest and penalties as income tax expense. As of September 30, 2024 and December 31, 2023, the Company had no interest related to unrecognized tax benefits, and no amounts for penalties related to unrecognized tax benefits were recognized in the provision for income taxes. We do not anticipate any significant change within 12 months of this reporting date. Å As of September 30, 2024, in addition to the \$15.6 million in tax-effected NOL carryforwards, at an assumed tax rate of 26%, the significant components of the Company's net deferred tax assets included stock-based compensation of \$11.7 million, capitalized research and development expenditures of approximately \$2.5 million and an intangible asset basis difference of approximately \$1.1 million. The Company believes that it is more likely than not that the benefit from the net deferred tax assets will not be realized. Accordingly, it has provided a full valuation allowance on any potential deferred tax assets. The valuation allowance increased by approximately \$4.0 million for the period ended September 30, 2024, as compared to the year ended December 31, 2023. The provision for income taxes is not material in the years presented due to there being no taxable income. Å The Company has federal R&D credit carryforwards of approximately \$623 thousand for the period ended September 30, 2024, which will be applied against payroll taxes, not against income taxes. The Company has no state R&D credit carryforwards. Å The Company files income tax returns in the U.S. federal jurisdiction and various state jurisdictions, with varying statutes of limitations. The tax years from inception through 2024 remain open to examination due to the carryover of unused net operating losses that are being carried forward for tax purposes. X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for income tax. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 2: <http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12C>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12B -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12B>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477891/740-270-50-1>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SAB Topic 6.1.5.Q1\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-599-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SAB Topic 6.1.5.Q1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-599-1)Reference 7: <http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-13>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.4-08\(h\)\(2\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1)Reference 9: <http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/740/tableOfContentReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-14>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-21>Reference 12: [http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-17](http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-17)Reference 13: [http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 2 -Subparagraph \(SAB Topic 11.C\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-599-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 2 -Subparagraph (SAB Topic 11.C) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-599-2)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482603/740-30-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482603/740-30-50-2) + Details Name: us-gaap_IncomeTaxDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 23 R11.htm IDEA: XBRL DOCUMENT v3.24.3 Intangible Assets and Goodwill 9 Months Ended Sep. 30, 2024 Intangible Assets and Goodwill [Abstract] Å Intangible Assets and Goodwill Note 5. Intangible Assets and Goodwill Å As a result of the merger with QPhoton in June 2022 (the "QPhoton Merger"), the Company has the following amounts related to intangible assets (in thousands): Å Å September 30, 2024 Å December 31, 2023 Å Å Gross Carrying Amount Å Accumulated Amortization Å Net Carrying Amount Å Å Gross Carrying Amount Å Accumulated Amortization Å Net Carrying Amount Å Non-compete agreement with founder Å \$,251 Å \$ (2,528) Å \$723 Å \$,251 Å \$ (1,715) Å \$1,536 Å Website domain name and trademark Å 1,009 Å Å (471) Å Å 538 Å Å 1,009 Å Å (320) Å Å 689 Å Technology and licensed patents Å 12,731 Å Å (4,244) Å Å 8,487 Å Å 12,731 Å Å (2,880) Å Å 9,851 Å Total Å \$16,991 Å \$ (7,243) Å \$9,748 Å \$16,991 Å \$ (4,915) Å \$12,076 Å The amortization expense of the Company's intangible assets for the three and nine months ended September 30, 2024 and 2023 was approximately \$780 thousand and \$2.3 million, respectively. The Company expects future amortization expense to be the following (in thousands): Å Å Amortization Å 2024 (remaining three months) Å \$776 Å 2025 Å 2,472 Å 2026 Å 2,021 Å 2027 Å 1,903 Å 2028 Å 1,819 Å Thereafter Å 757 Å Total Å \$9,748 Å The Company recorded goodwill resulting from the QPhoton Merger, calculated as the difference between the total purchase price and the value of tangible and intangible assets acquired less the liabilities assumed. The Company recorded goodwill of \$55.6 million resulting from the QPhoton Merger. Å The Company considered the intangible assets and goodwill for indicators of impairment as of September 30, 2024 and concluded there were no indicators of impairment at that time. X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for goodwill and intangible assets. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-30/tableOfContentReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-20/tableOfContent> + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R12.htm IDEA: XBRL DOCUMENT v3.24.3 Property and Equipment 9 Months Ended Sep. 30, 2024 Property and Equipment [Abstract] Å Property and Equipment Note 6. Property and Equipment Å The Company's property and equipment are primarily located at the Company's leased facilities in Hoboken, NJ and Tempe, AZ and consist of (in thousands): Å Å September 30, 2024 Å December 31, 2023 Å Computer and lab equipment Å \$5,899 Å \$2,999 Å Network equipment Å 29 Å Å 29 Å Furniture and fixtures Å 32 Å Å 32 Å Software Å 77 Å Å 49 Å Leasehold improvements Å 275 Å Å 33 Å Total cost of property and equipment Å 6,312 Å Å 3,142 Å Accumulated depreciation Å (486) Å Å (272) Å Property and equipment, net Å \$5,826 Å \$2,870 Å The Company recorded depreciation expense of \$75 thousand and \$76 thousand during the three months ended September 30, 2024 and 2023, respectively, and \$214 thousand and \$203 thousand during the nine months ended September 30, 2024 and 2023, respectively, using useful lives of the Company's long-lived assets as follows: Å Å Estimated Useful Life (Years) Computer and laboratory equipment Å 5 Network equipment Å 4 Furniture and fixtures Å 7 Software Å 3 Leasehold improvements Å Lessor of lease term or 5 Å Maintenance and repairs are charged to operations when incurred. When property and equipment are sold or otherwise disposed, the asset account and related accumulated depreciation and amortization accounts are relieved, and any gain or loss is included in other income or expense. X - ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/360/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 6 -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477798/958-360-50-6>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(d\) -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477798/958-360-50-1](http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477798/958-360-50-1)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 7 -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477798/958-360-50-7> + Details Name: us-gaap_PropertyPlantAndEquipmentDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 25 R13.htm IDEA: XBRL DOCUMENT v3.24.3 Operating Leases 9 Months Ended Sep. 30, 2024 Operating Leases [Abstract] Å Operating Leases Note 7. Operating Leases Å As of September 30, 2024, the Company has use of space in three different locations, Hoboken, NJ, Tempe, AZ, and Arlington, VA, under lease or membership agreements, which expire at various dates through November 30, 2028. The Company's leases do not provide an implicit rate, and the rates implicit in our leases are not readily determinable. Therefore, the Company uses its incremental borrowing rate as the discount rate when measuring operating lease assets and liabilities. The incremental borrowing rate represents an estimate of the interest rate the Company would incur at lease commencement to borrow an amount equal to the lease payments on a collateralized basis over the term of a lease. The Company's leases all contain options to extend or renew the lease or membership term. Å The table below reconciles the undiscounted future minimum lease payments under these operating leases to the total operating lease liabilities recognized on the consolidated balance sheet as of September 30, 2024 (in thousands): Å Year Å Lease Payments Due Å 2024 (remaining three months) Å \$88 Å 2025 Å 437 Å 2026 Å 591 Å 2027 Å 515 Å 2028 Å 212 Å Total minimum payments Å 1,843 Å Less: imputed interest Å (161) Å Present value of operating lease liabilities Å 1,682 Å Less: current portion included in other current liabilities Å (385) Å Long-term operating lease liabilities Å \$1,297 Å Å Other information related to operating lease liabilities consists of the following (in thousands): Å Å Three Months Ended September 30, Å Å Nine Months Ended September 30, Å Å 2024 Å 2023 Å 2024 Å 2023 Å Cash paid for operating lease liabilities (in thousands) Å \$117 Å Å \$92 Å Å \$244 Å Å \$214 Å Weighted average remaining lease term in years Å 3.5 Å Å 3.9 Å Å 3.5 Å Å 3.9 Å Weighted average discount rate Å 10% Å Å 10% Å Å 10% Å X - ReferencesNo definition available. + Details Name: us-gaap_LeasesOperatingAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/842-20/tableOfContent> + Details Name: us-gaap_LesseeOperatingLeasesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 26 R14.htm IDEA: XBRL DOCUMENT v3.24.3 Financial Liabilities 9 Months Ended Sep. 30, 2024 Financial Liabilities [Abstract] Å Financial Liabilities Note 8. Financial Liabilities Å The Company has the following amounts related to financial and derivative liabilities at the dates indicated (in thousands): Å Å September 30, 2024 Å December 31, 2023 Å Remaining loan balances Å \$8,250 Å Å \$2,063 Å Remaining unamortized debt issuance costs Å (1,736) Å Å (138) Å Financial liabilities, net of issuance costs Å \$6,514 Å Å \$1,925 Å Å Å Å Derivative liability Å \$666 Å Å \$- Å Å Additionally, the Company has accrued interest payable of \$122 thousand and \$14 thousand as of September 30, 2024 and December 31, 2023, respectively, which was included in accrued expenses. Å Secured Promissory Note Å On August 6, 2024, the Company entered into a Securities Purchase Agreement (the "Secured SPA") with Streeterville Capital, LLC (the "Streeterville"), pursuant to which the Company issued and sold to Streeterville a Secured Convertible Promissory Note (the "Streeterville Convertible Note") in the original principal amount of \$8.25 million. The principal amount includes an original issue discount of \$750 thousand. Streeterville paid \$7.5 million in cash for the Streeterville Convertible Note. The Streeterville Convertible Note accrues interest at a rate of 10% per annum and has a maturity date of February 6, 2026, unless earlier prepaid, redeemed or accelerated in accordance with its terms prior to such date. The Company intends to use the net proceeds from the sale of the Streeterville Convertible Note primarily for general working capital purposes, including for (i) operations as the Company increases its sales and marketing efforts; (ii) capital expenditures in outfitting its chip fabrication facility in Tempe, AZ; and (iii) for any other planned or unplanned expenditures that might arise in support of the Company's business plan. Ascendant Capital Markets, LLC served as the placement agent on the transaction and received a fee of \$450 thousand, and the Company recognized \$55 thousand in other issuance costs, primarily for legal services. Å The Streeterville Convertible Note is secured by all of the Company's tangible and intangible assets, including intellectual property, pursuant to that certain Security Agreement (the "Security Agreement") and IP Security Agreement (the "IP Security Agreement"), each entered into with Streeterville on August 6, 2024. In addition, the Company's wholly-owned subsidiaries, QPhoton, LLC, a Delaware limited liability company, Qubittech International, Inc., a Delaware corporation, Qubittech, Inc., a Delaware corporation, and QI Solutions, Inc., a Delaware corporation (collectively, the "Guarantors"), provided a guarantee (the "Guaranty"), dated as of August 6, 2024, of the Company's obligations to Streeterville under the Streeterville Convertible Note and the other transaction documents. Å Beginning on February 6, 2025, Streeterville has the right to redeem up to \$750,000 of the Streeterville Convertible Note per calendar month. The Company may pay such redemption amounts in cash, by converting such applicable redemption amount into shares of common stock at the applicable Conversion Price (as defined below) at such time, or in any combination of cash and shares of common stock, provided that the Company is required to pay any redemption amounts in cash under certain circumstances set forth in the Streeterville Convertible Note and that the payment of any redemption amount or portion thereof in cash is subject to an 10% premium. Å Beginning on the earlier of: (a) February 6, 2025, and (b) the effectiveness of a registration statement registering the Conversion Shares (as defined below), Streeterville may convert all or any portion of the outstanding balance of the Streeterville Convertible Note into shares (the "Conversion Shares") of the Company's common stock on any trading day (and the following trading day) on which any intraday trading bid price of the Company's common stock is 8% greater than the closing trade price on the previous trading day or at any time following an event of default, at a conversion price equal to 92% of the average of the two lowest daily volume weighted average prices of the Company's common stock during the eight trading day period prior to the respective conversion date (the "Conversion Price"), subject to anti-dilution adjustments and provided that Streeterville may not request any conversion of the Streeterville Convertible Note to the extent that such conversion would cause Streeterville (together with its affiliates) to beneficially own shares of Common Stock exceeding 4.99% (or 9.99% if the Market Capitalization, as defined below, is less than \$10 Å million) of the number of shares of Common Stock outstanding on such date. For the ownership limitation, "Market Capitalization" means a number equal to (a) the average volume weighted average price of the Company's common stock for the immediately preceding 15 Å trading days, multiplied by (b) the aggregate number of outstanding shares of common stock as reported on Company's most recently filed Form 10-Q or Form 10-K or as reported to Nasdaq in a subsequent shares outstanding change form. Absent an uncured event of default, as set forth in the Streeterville Convertible Note, Streeterville agreed to limit its aggregate sales of Conversion Shares on the open market in any given calendar week to 10% of the weekly trading volume of the Company's common stock on our principal trading market (Nasdaq) for such week. Upon evaluation, the Company determined that the conversion features inherent in the Streeterville Convertible Note meet the definition of a derivative liability (the "Streeterville Derivative Liability") covered under the ASC topic 815, Derivatives and Hedging. Applying ASC 820, Fair Value Measurement, the initial

fair value of the Streeterville Derivative Liability is \$666 thousand, which will be mark-to-market adjusted on a quarterly basis and accreted as interest expense using the effective interest rate method while the Streeterville Convertible Note is outstanding. A In addition to the beneficial ownership limitations provided in the Streeterville Convertible Note, the sum of the number of shares of the Company's common stock that the Company may issue to Streeterville under the Secured SPA, the Streeterville Convertible Note and any related documents without stockholder approval may not exceed the number of shares it could so issue pursuant to Nasdaq Listing Rule 5635(d)(A) (the "Share Cap"), unless shareholder approval (the "Approval") to exceed such limitation is obtained by the Company. The Company is required, under the Secured SPA to obtain the Approval by February 2, 2025. If the Company does not obtain the Approval by such date, it must continue seeking the Approval every 90 days until the Approval is obtained. If the total cumulative number of Conversion Shares that the Company issues to Streeterville equals the Share Cap and the Company has not obtained the Approval, any remaining outstanding balance of the Streeterville Convertible Note must be repaid in cash. A The Streeterville Convertible Note provides for customary events of default (each as defined in the Streeterville Convertible Note, an "Event of Default"), including, among other things, the event of nonpayment of principal, interest, fees or other amounts, a representation or warranty proving to have been incorrect when made, failure to perform or observe covenants within a specified cure period, a cross-default to certain other indebtedness and material agreements of the Company, and the occurrence of a bankruptcy, insolvency or similar event affecting the Company. Upon the occurrence of an Event of Default that is deemed a "Major Trigger Event" as defined in the Streeterville Convertible Note, Streeterville may increase the outstanding balance of the Streeterville Convertible Note by 10%, and upon the occurrence of an Event of Default that is deemed a "Minor Trigger Event" as defined in the Streeterville Convertible Note, Streeterville may increase the outstanding balance of the Streeterville Convertible Note by 5%. Streeterville can exercise its right to increase the outstanding balance upon a Major or Minor Trigger Event three times each. Upon the occurrence of an Event of Default, Streeterville may declare all amounts owed under the Streeterville Convertible Note immediately due and payable. In addition, upon the occurrence of an Event of Default, upon the election of Streeterville, interest shall begin accruing on the outstanding balance of the Streeterville Convertible Note from the date of the Event of Default equal to the lesser of 15% per annum and the maximum rate allowable under law. A Unsecured Promissory Note A On September 23, 2022, the Company entered into a Note Purchase Agreement (the "Streeterville Unsecured NPA") with Streeterville, pursuant to which Streeterville purchased an unsecured promissory note (the "Streeterville Unsecured Note") in the initial principal amount of \$8.25 million. The Note bore interest at 10% per annum, had a maturity date of 18 months from the date of its issuance and carried an original issue discount of \$750 thousand, which is included in the principal balance of the Streeterville Unsecured Note. A Beginning on March 23, 2023, Streeterville had the right to redeem up to \$750 thousand of the outstanding balance of the Streeterville Unsecured Note per month (the "Redemption Amount") by providing written notice to the Company (the "Redemption Notice"). The Company paid the applicable Redemption Amount in cash to Streeterville within three trading days of the Company's receipt of any such Redemption Notice. As of September 30, 2024, Streeterville has redeemed the full principal amount of the Streeterville Unsecured Note. There was an outstanding balance of \$1.9 million as of December 31, 2023. As of September 30, 2024, there was no outstanding balance and the Company has no further obligations with respect to the Streeterville Unsecured NPA or Streeterville Unsecured Note. A For a full discussion of the terms and conditions of the Streeterville Unsecured Note, see the Company's "Amendment No. 1 to its Annual Report on Form 10-K for the year ended December 31, 2023. X - DefinitionThe entire disclosure of financial liabilities. + ReferencesNo definition available. + Details Name: qubt.FinancialLiabilitiesTextBlock Namespace Prefix: qubt_Data Type: dt:TextBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap.FinancialLiabilitiesFairValueDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrl:stringItem Type Balance Type: na Period Type: duration XML 27 R15.htm IDEA: XBRL DOCUMENT v3.24.3 Loan Receivable 9 Months Ended Sep. 30, 2024 Loan Receivable [Abstract] A Loan Receivable Note 9. Loan Receivable A On May 16, 2023, the Company entered into a Summary of Proposed Terms (the "Letter of Intent") with millionways, Inc. (the "millionways") to provide bridge loans to millionways and enter into due diligence to acquire up to 100% of the AI firm. On June 6, 2023, the Company entered into a Note Purchase Agreement (the "MW Agreement") with millionways, pursuant to which the Company agreed to purchase from millionways up to three unsecured promissory notes (each, a "MW Note"), in an aggregate principal amount of up to \$2.0 million, subject to the terms and conditions of the MW Agreement. Also on June 6, 2023, pursuant to the terms of the MW Agreement, the Company purchased the MW Notes from millionways and loaned an aggregate principal amount of \$500 thousand to millionways. A The MW Agreement contains customary representations and warranties by millionways and the Company, as well as a "most favored nations" provision for the benefit of the Company. The MW Notes issued under the MW Agreement, including the MW Notes issued on June 6, 2023, provide that the indebtedness evidenced by the applicable MW Note bears simple interest at the rate of 10% per annum (or 15% per annum during the occurrence of an event of default, as defined in the MW Notes), and becomes due and payable in full on the earlier of (i) May 16, 2024, (ii) a change of control (as defined in the MW Notes) of millionways, (iii) dollar-for-dollar prepayment for additional capital received through any vehicle from a third party or (iv) an event of default. A A The Company reserved approximately \$306 thousand of the outstanding \$613 thousand receivable as uncollectible based on credit risk in the unaudited condensed consolidated financial statements as of September 30, 2024, and \$279 thousand of the outstanding \$558 thousand receivable as of December 31, 2023. X - DefinitionThe entire disclosure for claims held for amounts due to entity, excluding financing receivables. Examples include, but are not limited to, trade accounts receivables, notes receivables, loans receivables. Includes disclosure for allowance for credit losses. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/310-10/tableOfContentReference> 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 835-SubTopic 30-Name Accounting Standards Codification-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482925/835-30-45-2> + Details Name: us-gaap.LoansNotesTradeAndOtherReceivablesDisclosureTextBlock Namespace Prefix: us-gaap_Data Type: dt:TextBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap.ReceivablesAbstract Namespace Prefix: us-gaap_Data Type: xbrl:stringItem Type Balance Type: na Period Type: duration XML 28 R16.htm IDEA: XBRL DOCUMENT v3.24.3 Contingencies 9 Months Ended Sep. 30, 2024 Contingencies [Abstract] A Contingencies Note 10. Contingencies A Indemnification Arrangements A We enter into standard indemnification arrangements in our ordinary course of business. Pursuant to these arrangements, we indemnify, hold harmless, and agree to reimburse the indemnified parties for losses suffered or incurred by the indemnified parties (generally our business partners or customers) in connection with any trade secret, copyright, patent or other intellectual property infringement claim by any third-party with respect to our products. The term of these indemnification agreements is generally perpetual any time after the execution of the agreement. The maximum potential amount of future payments we could be required to make under these agreements is not determinable. We have never incurred costs to defend lawsuits or settle claims related to these indemnification agreements. As a result, we believe the estimated fair value of these agreements is minimal. A A We have entered into indemnification agreements with our directors and officers that may require us to indemnify our directors and officers against liabilities that may arise by reason of their status or service as directors or officers, other than liabilities arising from willful misconduct of a culpable nature. These agreements also require us to advance their expenses incurred as a result of any proceeding against them as to which they could be indemnified and to make good faith determination whether or not it is practicable for us to obtain directors and officers insurance. We currently have directors and officers liability insurance. A Legal Proceedings A From time to time, we may be involved in legal proceedings arising in the ordinary course of business. In general, management believes that ordinary course of business matters will not have a material adverse effect on our consolidated financial position or results of operations and are adequately covered by our liability insurance. However, it is possible that condensed consolidated cash flows or results of operations could be materially affected in any particular period by the unfavorable resolution of one of more of these contingencies or because of the diversion of management's attention and the incurrence of significant expenses. A See Part II, Item 1, Legal Proceedings, in this Form 10-Q for additional details on the status of motions on the following proceedings. A BV Advisory v. QCi Breach Lawsuit A At the time of the QPhoton Merger in June 2022, QPhoton had an outstanding balance of principal and interest due to BV Advisory Partners, LLC (the "BV Advisory") based on a Note Purchase Agreement that QPhoton had entered into with BV Advisory on March 1, 2021. Accordingly, the Company has recorded an estimated payable (the "BV Advisory Payable"), recognized as other current liabilities on the unaudited condensed consolidated financial statements, based on best available information in the amount of \$536 thousand as of September 30, 2024 and December 31, 2023. A On August 16, 2022, BV Advisory filed a complaint in the Court of Chancery of the State of Delaware (the "DE Chancery Court") naming the Company and certain of its directors and officers (among others) as defendants seeking, among other relief, monetary damages. The Company believes that BV Advisory's claims have no merit and intends to defend itself vigorously. BV Advisory's claims are not covered by the Company's liability insurance, nor does the Company believe it is necessary to accrue an amount in addition to the BV Advisory Payable at this time. A BV Advisory v. QCi Appraisal Action A BV Advisory was purportedly a shareholder of QPhoton, Inc., the predecessor in interest to QPhoton, LLC, a wholly owned subsidiary of the Company (both referred to as "QPhoton" in this Legal Proceedings discussion). BV Advisory rejected the Merger Consideration (as defined below) and on October 13, 2022, commenced litigation by filing a petition in the DE Chancery Court seeking appraisal rights on the shares of QPhoton it allegedly owned (which shares represented 10% of the shares of QPhoton outstanding immediately prior to the Company's acquisition of QPhoton). The Company included BV Advisory's purported ownership of QPhoton in the purchase price accounting for the QPhoton Merger. A The Company's total purchase price of QPhoton was approximately \$71.0 million, or \$69.9 million net of cash acquired, consisting of Company common stock, Series B Preferred Stock and QPhoton Warrants (as defined below). While the total shares of the Company's common stock on an as-converted basis offered in the QPhoton Merger was 36,600,823 (the "Merger Consideration"), the fair market valuation contemplated 31,299,417 of the shares, which assumed full conversion of the 2,377,028 shares of Series B Preferred Stock to common stock at the 10:1 ratio, and that only 1,726,931 of the warrants to purchase up to 7,028,337 shares of the Company's common stock (the "QPhoton Warrants") would eventually be exercised (specifically only the QPhoton Warrants for which the associated Company options and/or warrants had an exercise price at or below \$2.27 at the time of the QPhoton Merger). A Accordingly, as of September 30, 2024 and 2023, the Company has neither issued 2,957,251 shares of the Company's common stock on an as converted basis (the "Unissued QPhoton Shares") nor 702,834 warrants to purchase shares of the Company's common stock (the "Unissued QPhoton Warrants") that were included in the Merger Consideration. The Unissued QPhoton Shares are included in the statement of stockholder's equity as additional paid in capital as of as of September 30, 2024 and 2023, and the Unissued QPhoton Warrants have no carrying value as a liability on the Company's condensed consolidated balance sheet as of September 30, 2024. X - ReferencesNo definition available. + Details Name: us-gaap.CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrl:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for loss and gain contingencies. Describes any existing condition, situation, or set of circumstances involving uncertainty as of the balance sheet date (or prior to issuance of the financial statements) as to a probable or reasonably possible loss incurred by an entity that will ultimately be resolved when one or more future events occur or fail to occur, and typically discloses the amount of loss recorded or a range of possible loss, or an assertion that no reasonable estimate can be made. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 720-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147483359/720-20-50-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SAB Topic 5.Y.Q4\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480102/450-20-50-599-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SAB Topic 5.Y.Q4)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480102/450-20-50-599-1)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SAB Topic 5.Y.Q2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480102/450-20-50-599-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SAB Topic 5.Y.Q2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480102/450-20-50-599-1)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147483076/450-20-50-1>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/450-20/tableOfContentReference> 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483076/450-20-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483076/450-20-50-4)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 9-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483076/450-20-50-9](http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 9-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483076/450-20-50-9)Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic 450-SubTopic 30-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/450-30/tableOfContentReference> 9: <http://www.xbrl.org/1943274/2147483049/450-30-50-1> + Details Name: us-gaap.LossContingencyDisclosures Namespace Prefix: us-gaap_Data Type: dt:TextBlockItem Type Balance Type: na Period Type: duration XML 29 R17.htm IDEA: XBRL DOCUMENT v3.24.3 Capital Stock 9 Months Ended Sep. 30, 2024 Capital Stock [Abstract] A Capital Stock Note 11. Capital Stock A Authorized Classes of Stock A As of September 30, 2024, the Company's Board of Directors has authorized two classes of preferred stock. The Board has authorized 1,550,000 shares of preferred stock as Series A preferred stock, par value \$0.0001 per share, of which 993,306 and 1,490,004 shares, respectively, are issued and outstanding at September 30, 2024 and December 31, 2023. The Board has also authorized 3,079,864 shares of preferred stock as Series B preferred stock, par value \$0.0001 per share, none of which are issued and outstanding as of September 30, 2024 and December 31, 2023. A Series A Convertible Preferred Offering A From November 10, 2021 through November 17, 2021, the Company conducted a private placement offering (the "Private Placement") pursuant to securities purchase agreements with 7 accredited investors (the "Series A Investors"), whereby the Series A Investors purchased from the Company an aggregate of 1,545,459 shares of the Company's newly created Series A convertible preferred stock, par value \$0.0001 per share (the "Series A Preferred Stock") and warrants to purchase 1,545,459 shares of the Company's common stock (the "Preferred Warrants") for an aggregate purchase price of \$8.5 million. The Private Placement was completed and closed to further investment on November 17, 2021. A The Series A Preferred Stock ranks senior to common stock with respect to the payment of dividends and liquidation rights. Each holder of Series A Preferred Stock is entitled to receive, with respect to each share of Series A Preferred Stock then outstanding and held by such holder, dividends at the rate of ten percent (10%) per annum (the "Preferred Dividends"). The Company is obligated to pay the Preferred Dividends quarterly, in arrears, within fifteen (15) days of the end of each quarter. The Company has the option to pay the Preferred Dividends in cash or in common stock, at a price per share of common stock equal to the average of the closing sale price of the common stock for the five (5) trading days preceding the applicable dividend payment date. The Preferred Dividends are accrued monthly, but not compounded, and are recorded as interest expense, because the Preferred Dividends are mandatory and not declared at the discretion of the Board of Directors. A The number of shares of the Company's common stock issuable upon conversion of any share of Series A Preferred Stock shall be determined by dividing (x) the Conversion Amount of such share of Series A Preferred Stock by (y) the Conversion Price. the "Conversion Amount" means, with respect to each share of Series A Preferred Stock, as of the applicable date of determination, the sum of (1) the stated value thereof plus (2) any accrued dividends. the "Conversion Price" means, with respect to each share of Series A Preferred Stock, as of any optional conversion date, Mandatory Conversion Date or other date of determination, \$5.50, subject to adjustment for stock splits, dividends, recapitalizations and similar corporate events. A The Preferred Warrants were two-year warrants to purchase shares of the Company's common stock at an exercise price of \$7.00 per share, subject to adjustment, were exercisable at any time on or after the date that was six months following the issuance date, and provided for cashless exercise in the event the underlying shares of the Company's common stock are not registered. As of December 31, 2023, all of the Preferred Warrants had expired unexercised. A In connection with the Purchase Agreement, the Company and the Series A Investors entered into a registration rights agreement (the "Registration Rights Agreement") pursuant to which the Company agreed to file a registration statement to register the shares of the Company's common stock underlying the Series A Preferred Stock and warrants within 180 days. Pursuant to the Registration Rights Agreement, the Series A Investors received certain rights, including but not limited to piggyback registration rights, providing that the holder be given notice of any proposed registration of securities by the Company, and requiring that the Company register all or any portion of the registrable securities that the holders request to be registered, in each case, subject to the terms and conditions of the Registration Rights Agreement. On April 27, 2022 the Company filed a Resale Form S-3 as required by the Registration Rights Agreement. The Resale Form S-3 went effective on June 2, 2022. A On June 13, 2022, one of the Series A Investors, Falcon Capital Partners, converted 45,455 shares of Series A Preferred Stock into 47,728 shares of the Company's common stock. A On February 9, 2023, one of the Series A Investors, Greenfield Children, LLC, converted 10,000 shares of Series A Preferred Stock plus accrued dividends into 11,096 shares of the Company's common stock. A On March 19, 2024, the Company entered into a Redemption and Waiver Agreement (the "Series A Redemption Agreement") with the

current holders (the "Series A Holders") of its Series A Preferred Stock. Accordingly, \$8,125 million of additional paid in capital was reclassified from shareholders' equity to mezzanine equity (the "Mezzanine Equity") of the Company's condensed consolidated balance sheet as of September 30, 2024, in accordance with Accounting Series Release No. 268, Presentation in Financial Statements of Redeemable Preferred Stocks. The Mezzanine Equity is valued at the date of the Private Placement issuance. Pursuant to the Series A Redemption Agreement, the Company agreed to redeem all outstanding shares of the Series A Preferred Stock for an aggregate cash purchase price of \$8,195,000, or \$5.50 per share, at its sole discretion, in 18 monthly payments (each a "Monthly Redemption Threshold" payment), which may be accelerated at the Company's sole discretion. In addition, the Series A Holders agreed to waive (the "Waivers"), on a month-by-month basis following each monthly payment, certain rights granted to them in (i) the Preferred Stock Certificate of Designation (the "Preferred Stock COD"), including for the accrual and payment of accrued and future dividends; and (ii) the Preferred Stock Securities Purchase Agreement (the "Preferred Stock SPA"). In the event the Company opts to not make a Monthly Redemption Threshold payment, the Waivers are forfeited and the terms revert to those detailed in the Preferred Stock COD and Preferred Stock SPA. During the three and nine months ended September 30, 2024, the Company redeemed 248,349 and 496,698 shares of Series A Preferred Stock, respectively, for approximately \$1.4 million and \$2.7 million, in cash paid to the Series A Holders, respectively. As of September 30, 2024 and December 31, 2023, there were 993,306 and 1,490,004 shares of Series A Preferred Stock, respectively, issued and outstanding. At the Market-Facility On October 28, 2022, the Company filed a shelf registration statement on Form S-3 under the Securities Act of 1933, as amended, which was declared effective on November 8, 2022 (the "2022 Shelf"). Under the 2022 Shelf at the time of effectiveness, the Company had the ability to raise up to \$100 million by selling common stock, preferred stock, debt securities, warrants and units. On December 5, 2022, the Company entered into an At-the-Market Issuance Sales Agreement (the "ATM Agreement") with Ascendant Capital Markets, LLC (the "Ascendant") whereby the Company may, but is not obligated to, offer and sell, from time to time, shares of its common stock (the "ATM Facility"), and incorporated the ATM Agreement into the 2022 Shelf by amendment that was declared effective January 10, 2023. On August 17, 2023, the Company and Ascendant entered into an amendment (the "ATM Amendment") to the ATM Agreement, increasing the amount of common stock that the Company may offer and sell via the ATM Facility from \$25 million to \$50 million (the "ATM Upsize"). Following the ATM Upsize, the Company filed a prospectus supplement, dated August 18, 2023, with the Securities and Exchange Commission and became able to offer and sell shares of the Company's common stock having an aggregate offering price of up to \$27,362,717 via the ATM Facility. The Company intends to use any net proceeds from the sale of securities under the ATM Facility for operations and for other general corporate purposes, including, but not limited to, capital expenditures, including our AZ Chips Facility, as defined in Item 2, Management's Discussion and Analysis of Financial Condition and Results of Operations, payments under the Series A Redemption Agreement and general working capital. The Company did not sell any shares through the ATM Facility for the three months ended September 30, 2024, and for the nine months ended September 30, 2024, the Company sold 16,604,770 shares of the Company's common stock through the ATM Facility at an average price of \$0.88, from which the Company received net proceeds of \$14.6 million. A Warrants A The table below summarizes the warrants outstanding at September 30, 2024 (in thousands, except exercise price data): A Issuance Date A Expiration Date A Exercise Price A A Issued A A Exercised A A Forfeited / Canceled A A Warrants Outstanding A August 18, 2020 A August 18, 2025 A \$2.00 A A \$1.71 A A (\$1.50) A A A \$2.14 A November 15, 2021 A November 15, 2023 A \$7.00 A A \$1,545 A A A \$1,545 A A A \$1,545 A A A June 16, 2022 A May 9, 2027 A \$0.0001 A A \$6.325 A A A \$4.148 A A \$2,177 A A In connection with a restricted stock units offering in June 2020, the Company issued warrants in August 2020 to purchase 171,000 shares of the Company's common stock, at an exercise price of \$2.00. Those warrants are exercisable for five years from the date of issuance. A In connection with the offering of Series A Preferred Stock in November 2021, the Company issued warrants to purchase 1,545,459 shares of the Company's common stock at an exercise price of \$7.00. Those warrants were exercisable for two years from the date of issuance and have now expired. A In connection with the QPhoton Merger on June 16, 2022, the Company issued 6.3 million warrants to purchase shares of the Company's common stock at an exercise price of \$0.0001. Those warrants are exercisable when and if stock options and warrants issued by the Company and outstanding as of June 15, 2022 (the "Underlying Options") are exercised. As of September 30, 2024, none of the QPhoton Warrants linked to the outstanding Underlying Options are expected to be exercised as the exercise prices of the Underlying Options are above the closing stock price as of September 30, 2024. The 6.3 million issued warrants represent a portion of the 7.0 million warrants included in the Merger Consideration, having been received by two QPhoton shareholders. A third alleged shareholder rejected the Merger Consideration and commenced litigation, and to date that litigation has not been resolved and the 702,834 warrants have not been issued. See Part II, Item 1, Legal Proceedings, for additional information on the status of the litigation. A Accordingly, as of September 30, 2024, of the 6.3 million QPhoton Warrants issued, approximately 66% have been forfeited because the corresponding Underlying Options had expired or been forfeited. Further, as discussed in Note 2, Significant Accounting Policies, Fair Value of Financial Instruments, the QPhoton Warrants issued on June 16, 2022, are considered Level 3 liabilities for fair value measurement on the valuation hierarchy. Accordingly, the Company recognized mark-to-market gains of \$13 thousand and \$384 thousand during the three and nine months ended September 30, 2023, respectively, with an ending balance of \$144 thousand as of September 30, 2023. As of September 30, 2024 and December 31, 2023, the QPhoton Warrants have no carrying value as a liability on the Company's condensed consolidated balance sheet and there was no mark-to-market adjustment recognized during the nine months ended September 30, 2024. X - References No definition available. + Details Name: us-gaap_EquityAbstract Namespace Prefix: us-gaap_Data Type: xbrl:stringItemType Balance Type: na Period Type: duration X - Definition The entire disclosure for terms, amounts, nature of changes, rights and privileges, dividends, and other matters related to preferred stock. + References Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/505/tableOfContent + Details Name: us-gaap_PreferedStockTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 30 R18.htm IDEA: XBRL DOCUMENT v3.24.3 Stock-based Compensation 9 Months Ended Sep. 30, 2024 Stock-based Compensation [Abstract] A Stock-based Compensation Note 12. Stock-based Compensation A Incentive Plans A The Company's 2019 Equity and Incentive Plan, as amended in 2021 (the "2019 Plan") enabled the Company to grant incentive stock options or nonqualified stock options and other equity awards to employees, directors and consultants of the Company up to a total of 3 million shares of the Company's common stock. All 3 million shares available for issue under the 2019 Plan have been issued. A On July 5, 2022, the Board of Directors adopted the Company's 2022 Equity and Incentive Plan (the "2022 Plan") which provides for the issuance of up to 16 million shares of the Company's common stock. The 2022 Plan was approved by a majority of the shareholders in September 2022. Per the 2022 Plan, the 2022 Plan reserves increased automatically by 1 million shares on January 1, 2023 and January 1, 2024, providing for a total issuance of up to 18 million shares of the Company's common stock. As of September 30, 2024, a total of 12.4 million shares and options were issued and outstanding. A Options A The following table summarizes the Company's option activity for the nine months ended September 30, 2024 (in thousands, except exercise price and contractual life data): A A Number Outstanding A A Weighted Average Exercise Price per Share A A Weighted Average Remaining Contractual Life (Years) A Balance as of January 1, 2024 A \$13,843 A \$2.64 A A \$3.7 A Granted A \$250 A A \$1.01 A A \$5.0 A Exercised A A A A A Forfeited A (1,724) A A \$4.11 A A Balance as of September 30, 2024 A \$12,369 A \$2.41 A A \$3.1 A Vested and exercisable as of September 30, 2024 A \$8,375 A \$2.87 A A \$2.8 A The following table presents the assumptions used in the Black-Scholes option-pricing model to determine the grant-date fair value of stock options granted during the three and nine months ended September 30, 2024 and 2023: A A Three Months Ended September 30, A A Nine Months Ended September 30, A A A 2024 A 2023 A Exercise price A \$1.00 A \$1.12 A A \$1.35 A \$1.35 A A \$1.00 A \$1.12 A A \$1.35 A 1.64 A Risk-free interest rate A 5.2 A 5.2 A A 4.8 A 4.8 A A 5.2 A 5.2 A A 5.2 A 4.7 A 4.8 A Expected volatility A 93.2 A 104.6 A A 134.5 A 134.5 A A 93.2 A 104.6 A A 136.9 A Expected dividend yield A 0% A 0% A 0% A 0% Expected life of options (in years) A 5.0 A 5.0 A A 5.0 A 5.0 A A 5.0 A 5.0 A The following table summarizes the exercise price range as of September 30, 2024 (in thousands, except exercise price data): A Exercise Price A Outstanding Options A Exercisable Options A \$0.00 A 1.00 A A \$105 A A \$10 A \$1.00 A 2.00 A A \$3,484 A A \$1,794 A \$2.00 A 3.00 A A \$5,845 A A \$5,500 A \$3.00 A 6.00 A A \$38 A \$38 A \$6.00 A 8.00 A A \$683 A A \$683 A \$8.00 A 12.00 A A \$350 A A \$350 A A A \$12,369 A A \$8,375 A A The weighted average grant-date fair value of stock options granted during the nine months ended September 30, 2024 and 2023 was \$1.01 and \$1.42 per share, respectively. As of September 30, 2024, total unrecognized compensation cost related to common stock options was \$3.5 million, which is expected to be recognized over a period of 3.3 years. A Stock-based Compensation A The Company recognized stock-based compensation expense related to common stock options and restricted shares of common stock in the following expense categories of its consolidated statements of operations (in thousands): A A Three Months Ended September 30, A A Nine Months Ended September 30, A A A 2024 A 2023 A A 2024 A 2023 A Research and development A \$562 A A \$408 A A \$1,761 A A \$1,358 A Selling and marketing A 12 A A 85 A A 123 A A (351) General and administrative A 189 A A 499 A A 796 A A 2,103 A Total stock-based compensation A 763 A A \$992 A A \$2,680 A A \$3,110 A A For the nine months ended September 30, 2024 and 2023, stock-based compensation on the statements of stockholders' equity was lower by \$207 thousand and lower by \$206 thousand, respectively, as compared to the expense recorded due to timing differences between award dates and the realization of stock-based compensation expense. The net expense of \$2.7 million for the nine months ended September 30, 2024 is primarily attributable to vesting expense recognition, offset by insignificant pre-vesting forfeitures of common stock options for separated employees. A In terms of new issuances, the Company issued 218 thousand shares of common stock to former executives in the nine months ended September 30, 2024 per their respective employment and separation agreements (the "Separation Agreement Shares"). In conjunction with the Separation Agreement Shares, the Company recognized \$197 thousand of stock-based compensation expense during the nine months ended September 30, 2024, and does not expect future expense related to these offerings as they are fully vested. A During the nine months ended September 30, 2023, the Company issued 2.4 million shares of common stock to employees as performance and incentive awards (the "2023 Incentive Shares"). The 2023 Incentive Shares included 854 thousand shares of common stock issued to 35 employees as payment in lieu of cash for 2022 performance bonuses (the "2022 Bonus Incentive Shares") and 1.5 million shares of common stock as long-term incentive bonuses to five employees identified as key technical staff (the "Retention Incentive Shares"). The Bonus Incentive Shares are restricted and subject to the following vesting schedule: one-half vested on December 31, 2023 and one-half vesting on December 31, 2024. As of December 31, 2023, the Company canceled 23,600 of the issued shares that were forfeited by employees no longer with the Company. The Retention Incentive Shares are restricted and subject to annual vesting in equal amounts over a five-year period as follows: 20% will vest on each of December 31, 2023, December 31, 2024, December 31, 2025, December 31, 2026, and December 31, 2027, subject to the grantee continuing to perform services for the Company in the capacity in which the grant was received on each applicable vesting date. A Stock-based Compensation for Services A The Company recognized stock-based compensation expense for services in lieu of cash payments to certain consultants, including expenses for both shares issued and stock option awards granted, in the following expense categories of its consolidated statements of operations (in thousands): A A Three Months Ended September 30, A A Nine Months Ended September 30, A A A 2024 A 2023 A Selling and marketing A \$- A A (\$107) A A \$- A (\$174) General and administrative A 2 A A 107 A A 21 A A 456 A Total stock-based compensation A 2 A A \$- A A \$21 A A 282 A A For the nine months ended September 30, 2024 and 2023

sublicenses for the technology under the agreement. The agreement is effective until the later of: (i) the 30-year anniversary of the effective date, or (ii) the expiration of the licensed patent or licensed patent application that is last to expire. As part of the merger of the Company and QPhoton, the Stevens License Agreement was assigned to the Company. A During the term of the Stevens License Agreement and prior to any commercialization or sublicensing of the technology by the Company, the Company is required to submit annual reports to the Stevens Institute reporting on all research, development, and efforts toward commercialization and/or sublicensing made during the year. Once any commercialization and/or sublicensing has been initiated, the Company will deliver quarterly reports to the Stevens Institute reporting on the revenue received by the Company, all sublicenses derived from the sale of licensed products, and the net sales price associated with each transaction. The Company will be responsible for reimbursing Stevens for any costs associated with the prosecution and maintenance of the licensed patents and licensed patent applications moving forward. A Consideration for the Agreement A As consideration for the license and other rights granted under the agreement, QPhoton agreed to pay the following: (i) \$35 thousand within 30 days of execution of the agreement, (ii) \$28 thousand within 30 days of each annual anniversary of the effective date, (iii) equity in the Company equivalent to nine percent of the outstanding equity of the Company within 30 days of the execution of the agreement, and (iv) royalties of 3.5% of the net sales price of each licensed product sold or licensed by the company during the quarter then-ended, for which it also received payment, concurrent with the delivery of the relevant quarterly report. A As of September 30, 2024, the Company has begun to commercialize some of the licensed technology, though has not recognized any related revenue and hence has not incurred any royalty expenses payable to the Stevens Institute. X - DefinitionThe entire disclosure of license agreement Institute of technology. + ReferencesNo definition available. + Details Name: qubt_LicenseAgreementStevensInstituteOfTechnologyTextBlock Namespace Prefix: qubt_Data Type: dtr:textBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EntertainmentLicenseAgreementForProgramMaterialAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 33 R21.htm IDEA: XBRL DOCUMENT v3.24.3 Restatement of Previously Issued Financial Statements 9 Months Ended Sep. 30, 2024 Restatement of Previously Issued Financial Statements [Abstract] A Restatement of Previously Issued Financial Statements Note 15. Restatement of Previously Issued Financial Statements A Subsequent to the issuance of our Annual Report on Form 10-K for the year ended December 31, 2023, and our subsequent retention of BPM LLP to replace BF Borgers CPA PC as our independent registered public accounting firm, management became aware of various adjustments to be recorded to our consolidated financial statements. Accordingly, on September 11, 2024, we filed Amendment 1 to our Annual Report on Form 10-K for the year ended December 31, 2023 (the “2023 Amendment”), amending our consolidated balance sheets as of December 31, 2023 and 2022, and amending our consolidated statements of operations, our consolidated statements of stockholders’ equity, and our consolidated statements of cash flows for the years ended December 31, 2023 and 2022, primarily with regard to the purchase accounting of the QPhoton Merger, stock-based compensation accounting, financing costs, and other matters. The restated consolidated financial statements in the 2023 Amendment also reflect the correction of certain previously-identified errors and out-of-period adjustments that were deemed immaterial to the annual or interim period in which they were recorded and have been restated in the 2023 Amendment to properly reflect the corrections in the appropriate periods. A In this Quarterly Report on Form 10-Q for the nine months ended September 30, 2024, we amended our consolidated statements of operations, our consolidated statements of stockholders’ equity, and our consolidated statements of cash flows for the nine months ended September 30, 2023, which restate and revise items in line with the disclosures and reclassifications discussed in the 2023 Amendment. The aggregate impact of these errors on our condensed consolidated statements of operations for the three and nine months ended September 30, 2023, is a decrease in net loss of approximately \$1.4 million and \$1.0 million, respectively. The estimated aggregate impact of these errors on the Company’s condensed consolidated balance sheet for the nine months ended September 30, 2023, is (i) decreased intangible and goodwill assets of \$8.6 million; (ii) materially unchanged and increased liabilities of approximately \$500 thousand; and (iii) decreased stockholder’s equity of approximately \$9.1 million. X - DefinitionThe entire disclosure for reporting error correction. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification -Section 50-Paragraph 7-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-7> + Details Name: us-gaap_ErrorCorrectionTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_PriorPeriodAdjustmentAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 34 R22.htm IDEA: XBRL DOCUMENT v3.24.3 Subsequent Events 9 Months Ended Sep. 30, 2024 Subsequent Events [Abstract] A Subsequent Events Note 16. Subsequent Events A In October and November 2024, the Company redeemed 165,566 shares of Series A Preferred Stock for \$910 thousand. As of November 4, 2024, the Company has redeemed 662,264 shares of Series A Preferred Stock for a cumulative redemption amount of \$3.6 million in cash paid to the Series A Holders; there are 827,740 shares of Series A Preferred Stock issued and outstanding. A In October 2024, the Company resumed use of its ATM Facility and sold approximately 3.9 million shares of common stock as of November 4, 2024. The Company intends to use the net proceeds for our operations and for other general corporate purposes, including, but not limited to, capital expenditures, including our AZ Chips Facility, as defined in Item 2, Management’s Discussion and Analysis of Financial Condition and Results of Operations, payments under the Series A Redemption Agreement and general working capital. As of November 4, 2023, the Company has approximately \$55 million available under the 2022 Shelf and \$5 million available under the ATM Agreement, as amended. A There are no other events of a subsequent nature that in management’s opinion are reportable. X - ReferencesNo definition available. + Details Name: us-gaap_SubsequentEventsAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for significant events or transactions that occurred after the balance sheet date through the date the financial statements were issued or the date the financial statements were available to be issued. Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 855-Name Accounting Standards Codification -Publisher FASB-URI https://asc.fasb.org/855/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef-Topic 855-SubTopic 10-Name Accounting Standards Codification -Section 50-Paragraph 2-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483399/855-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 855-Name Accounting Standards Codification -Publisher FASB-URI https://asc.fasb.org/855/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef-Topic 855-SubTopic 10-Name Accounting Standards Codification -Section 50-Paragraph 2-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483399/855-10-50-2) + Details Name: us-gaap_SubsequentEventsTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 35 R23.htm IDEA: XBRL DOCUMENT v3.24.3 Pay vs Performance Disclosure - USD (\$) in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Pay vs Performance Disclosure A A A Net Income (Loss) \$(5,675) \$(6,841) \$(17,305) \$(20,395) [1],[2] [1] As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statements of operations for the three and nine months ended September 30, 2023. [2] As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statement of cash flows for the nine months ended September 30, 2023. X - ReferencesReference 1:

months ended September 30, 2024. The reclassifications had no impact on consolidated net loss, total consolidated assets, total consolidated liabilities, or consolidated stockholders' equity. Risk and Uncertainties Risk and UncertaintiesThe Company is subject to certain risks and uncertainties and believes changes in any of the following areas could have a material adverse effect on the Company's future consolidated financial position or consolidated results of operations or cash flows: new product development, including market receptivity; litigation or claims against the Company based on intellectual property, patent, product regulation or other factors; competition from other products; general economic conditions; the ability to attract and retain qualified employees; and, ultimately, to sustain profitable operations. Use of Estimates Use of EstimatesThese unaudited condensed consolidated financial statements have been prepared in accordance with U.S. GAAP, which requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the unaudited condensed consolidated financial statements, and the reported amounts of revenues and expenses during the reporting period. Some of the more significant estimates required to be made by management include the valuation of goodwill and intangible assets, deferred tax assets, equity-based transactions and liquidity assessment. Actual results may differ from these estimates. Cash and Cash Equivalents Cash and Cash EquivalentsHighly liquid investments with a maturity of three months or less when purchased are considered to be cash equivalents. The Company maintains its cash in mutual funds and deposit and money market accounts with high quality financial institutions which, at times, may exceed federally insured limits. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million and \$2.1 million, respectively, in cash equivalents invested in mutual funds. The Company has not experienced any losses on these deposits and believes it is not exposed to significant credit risk on cash. Revenue Revenue The Company recognizes revenue in accordance with ASC 606 "Revenue from Contracts with Customers," by analyzing contracts with its customers using a five-step approach: 1. Identify the contract 2. Identify the performance obligations 3. Determine the transaction price 4. Allocate the transaction price to the performance obligations 5. Recognize revenue when performance obligations are satisfied The revenue the Company has recognized in the nine months ended September 30, 2024 and 2023 were primarily derived from contracts to perform professional services. Revenue from time and materials-based contracts is recognized as the direct hours worked during the period times the contractual hourly rate, plus direct materials and other direct costs as appropriate, plus negotiated materials handling burdens, if any. Revenue from units-based contracts is recognized as the number of units delivered or performed during the period times the contractual unit price. Revenue from fixed price contracts is recognized as work is performed with estimated profits recorded on a percentage of completion basis. The Company has no cost-plus type contracts at this time. The Company includes depreciation and amortization expenses in manufacturing overhead, which is a component of cost of revenue. However, at the present time manufacturing overhead, including depreciation and amortization expense related to production equipment, is not material and the primary components of cost of revenue are direct labor and direct materials, with a small amount of shipping expenses. Accounts Receivable Accounts ReceivableAccounts receivable consists of amounts due from customers for work performed on contracts. The Company records accounts receivable at their net realizable value. Periodically the Company evaluates its accounts receivable to establish a provision for credit losses, when deemed necessary, based on the history of past write-offs, collections and current credit conditions. The customer accounts receivable as of September 30, 2024 are considered not fully collectible and thus the Company has recorded a provision for credit losses of \$3.5 thousand; the customer accounts receivable as of December 31, 2023 are considered fully collectible. Provision for Credit Losses Provision for Credit LossesThe Company estimates losses on loans and other financial instruments in accordance with Accounting Standards Update ("ASU") 2016-13, Measurement of Credit Losses on Financial Instruments. ASU 2016-13 introduces the current expected credit losses ("CECL") methodology for estimating allowances for credit losses. The CECL framework requires the Company to measure all expected credit losses for financial assets held at the reporting date based on historical experience, current conditions and reasonable and supporting forecasts. Under CECL, the allowance for credit losses is measured as the difference between the financial asset's cost basis and the net amount expected to be collected on the financial asset. CECL allows us to use information about past events including historical loan loss experience, current conditions, and reasonable and supportable forecasts to assess the collectability of the financial assets. The receivables for financial assets as of September 30, 2024 and December 31, 2023 are not considered fully collectible and thus management has recorded a provision for credit losses. See Note 9, Loan Receivable, for additional information. Inventory InventoryInventory is stated at the lower of cost or net realizable value. Cost is determined on a standard cost basis which approximates actual cost on a first-in-first out method. Lower of cost or net realizable value is evaluated by considering obsolescence, excessive levels of inventory, deterioration and other factors. Adjustments to reduce the cost of inventory to its net realizable value, if required, are made for estimated excess, obsolescence or impaired inventory and are charged to cost of revenue. Once the cost of the inventory is reduced, a new lower-cost basis for that inventory is established, and subsequent changes in facts and circumstances do not result in the restoration or increase in that newly established cost basis. Factors influencing these adjustments would be required if these factors differ from our estimates. Operating Leases Operating LeasesThe Company determines if an arrangement is a lease at inception. Operating lease right-of-use ("ROU") assets are included in right-of-use assets, net on the consolidated balance sheets. The current and long-term components of operating lease liabilities are included in the current operating lease liabilities and noncurrent operating lease liabilities, respectively, on the consolidated balance sheets. Operating lease ROU assets and operating lease liabilities are recognized based on the present value of the future minimum lease payments over the lease term. As most of the Company's leases do not provide an implicit rate, and the Company uses an incremental borrowing rate based on the information available at the commencement date in determining the present value of future payments. Certain leases may include options to extend or terminate the lease. Lease expense for minimum lease payments is recognized on a straight-line basis over the lease term. Leases with an initial term of 12 months or less are not recorded on the consolidated balance sheet. All of our operating leases are comprised of office space leases, and as of September 30, 2024 and December 31, 2023, we had no finance leases. Business Combinations and Valuation of Goodwill Business Combinations and Valuation of GoodwillWe account for business combinations under the acquisition method of accounting. This method requires the recording of acquired assets and assumed liabilities at their acquisition date fair values. The excess of the purchase price over the fair value of assets acquired and liabilities assumed is recorded as goodwill. Results of operations related to business combinations are included prospectively beginning with the date of acquisition and transaction costs related to business combinations are recorded withing general and administrative expenses. The Company reviews goodwill for impairment on an annual basis or whenever events or changes in circumstances indicate the carrying value may not be recoverable. The Company performs an annual impairment test by comparing the fair value of a reporting unit with its carrying amount. An impairment charge should be recognized for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. In addition, income tax effects from any tax-deductible goodwill carrying amount of the reporting unit should be considered when measuring the goodwill impairment loss, if applicable. The Company has determined that it has a single reporting unit for purposes of performing its goodwill impairment test. As the Company uses the market approach to assess impairment, its common stock price is an important component of the fair value calculation. If the Company's stock price continues to experience significant price and volume fluctuations, this will impact the fair value of the reporting unit and can lead to potential impairment in future periods. The Company performs its annual impairment test during the fourth quarter of each fiscal year. As of September 30, 2024, we had not identified any factors that indicated there was an impairment of our goodwill and determined that no additional impairment analysis was then required. Property and Equipment Property and EquipmentProperty and equipment are stated at cost or contributed value. Depreciation of furniture, software and equipment is calculated using the straight-line method over their estimated useful lives, and leasehold improvements are amortized on a straight-line basis over the shorter of their estimated useful lives or the lease term. The cost and related accumulated depreciation of equipment retired or sold are removed from the accounts and any differences between the un depreciated amount and the proceeds from the sale are recorded as a gain or loss on sale of equipment. Maintenance and repairs are charged against expense as incurred. Impairment of Long-Lived Assets Impairment of Long-Lived AssetsThe Company has long-lived assets such as tangible property and equipment, identified intangible assets consisting of acquired patents and core technology. When events or changes in circumstances occur that could indicate the carrying value of long-lived assets may not be recoverable, the Company assesses recoverability by determining whether the undiscounted cash flows estimated to be generated by those assets are less than the carrying amounts of those assets. If the undiscounted cash flow is less, an impairment charge is recognized for the excess of the carrying amounts of these assets over the fair values. Fair values are determined by discounted future cash flows, appraisals or other methods. During the three and nine months ended September 30, 2024 and 2023, the Company did not record any impairment from long-lived assets. Fair Value of Financial Instruments Fair Value of Financial InstrumentsThe carrying amount of certain financial instruments held by the Company, such as cash equivalents, accounts receivable, contract assets and liabilities, accounts payable, and accrued and other current liabilities, approximate fair value due to their short maturities. The carrying amount of the liabilities for the convertible preferred stock warrants represent their fair value. The carrying amounts of the Company's borrowings and lease liabilities approximate fair value due to the market interest rates that these obligations bear and interest rates currently available to the Company. A Fair value is defined as the exchange price that would be received for an asset or an exit price paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The fair value hierarchy defines a three-level valuation hierarchy for disclosure of fair value measurements as follows: A Level 1 Unadjusted quoted prices in active markets for identical assets or liabilities; A Level 2 Inputs other than quoted prices included within Level 1 that are observable, unadjusted quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the related assets or liabilities; and A Level 3 Unobservable inputs that are supported by little or no market activity for the related assets or liabilities. The categorization of a financial instrument within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million of the \$3.1 million cash and cash equivalents and \$793 thousand of the \$2.1 million cash and cash equivalents, respectively, in Level 1 assets, comprised of U.S. Government mutual funds, and \$666 thousand and no carrying value, respectively, for Level 3 liabilities, which are comprised of derivative and warrant liabilities. See Note 11, Capital Stock "Warrants, for a full discussion of the warrant liability. A Research and Development Costs Research and Development CostsResearch and development costs include costs directly attributable to the conduct of research and development programs, including the cost of services provided by outside contractors, acquiring work-in-progress intellectual property, development, and mandatory compliance fees and contractual obligations. All costs associated with research and development are expensed as incurred. Software Development Costs Software Development CostsSoftware development costs incurred subsequent to the establishment of technological feasibility for software intended to be sold, licensed or otherwise marketed to customers will be capitalized, but development costs not meeting the criteria for capitalization are expensed as incurred. With respect to internal use software, the Company will capitalize such development costs incurred during the application development stage, but development costs incurred prior to that stage will be expensed as incurred. No amortization expense will be recorded until the software is ready for its intended use. To date the Company has not incurred any material capitalizable software development costs. Stock-Based Compensation Stock-based CompensationStock-based compensation expense for expected-to-vest awards is valued under the single-option approach and amortized on a straight-line basis, accounting for actual pre-vesting forfeitures as they occur. We utilize the Black-Scholes pricing model in order to determine the fair value of stock-based option awards. The Black-Scholes pricing model requires various highly subjective assumptions including volatility, expected option life, and risk-free interest rate. The assumptions used in calculating the fair value of share-based payment awards represent management's best estimates. These estimates involve inherent uncertainties and the application of management judgment. If factors change and different assumptions are used, our stock-based compensation expense could be materially different in the future. Income Taxes Income TaxesThe Company uses the asset and liability method of accounting for income taxes. Deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to differences between the carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. Deferred tax expense or benefit is the result of changes in the deferred tax assets and liabilities. Valuation allowances are established when necessary to reduce deferred tax assets where, based upon the available evidence, management concludes that it is more-likely-than-not that the deferred tax assets will not be realized. Realization of deferred tax assets is also dependent upon future earnings, if any, the timing and amount of which are uncertain. The Company records a liability for the uncertain tax positions taken or expected to be taken on the Company's tax return when it is more-likely-than-not that the tax position might be challenged despite the Company's belief that the tax return positions are fully supportable, and additional taxes will be due as a result. To the extent that the assessment of such tax positions changes, for example, based on the outcome of a tax audit, the change in estimate is recorded in the period in which the determination is made. The provision for income taxes includes the impact of provisions for uncertain tax positions. Loss Per Share Loss Per ShareBasic net loss per common share is computed by dividing net loss by the weighted average number of common shares outstanding during the period. Diluted net loss per common share is computed by dividing net loss attributable to common stockholders by the weighted average number of common shares outstanding, plus the number of additional common shares that would have been outstanding if the common share equivalents had been issued (computed using the "Converted" method), unless the effect of such issuances would have been anti-dilutive. Recently Issued Accounting Pronouncements Recently Issued Accounting PronouncementsFrom time to time, new accounting pronouncements are issued by the FASB or other standard setting bodies that are adopted by the Company as of the specified effective date. Unless otherwise discussed, we believe that the impact of recently issued standards that are not yet effective will not have a material impact on our financial position or results of operations upon adoption. The Company has evaluated the recently implemented accounting standards and concluded that none currently apply to the Company. X - DefinitionDisclosure of accounting policy for provision for credit losses. + ReferencesNo definition available. + Details Name: qubt_ProvisionForCreditLossesPolicyTextBlock Namespace Prefix: qubt_Data Type: dtr:textBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the basis of presentation and significant accounting policies concepts. Basis of presentation describes the underlying basis used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS). Accounting policies describe all significant accounting policies of the reporting entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -SubTopic 10 -Name Accounting Standards Codification -Section 05 -Paragraph 4 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479515/805-10-05-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -SubTopic 10 -Name Accounting Standards Codification -Section 05 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479515/805-10-05-4Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -SubTopic 10 -Name Accounting Standards Codification -Section 05 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479515/805-10-05-4Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -SubTopic 10 -Name Accounting Standards Codification -Section 05 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479515/805-10-05-4 + Details Name: us-gaap_BusinessCombinationsPolicy Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for cash and cash equivalents, including the policy for determining which items are treated as cash equivalents. Other information that may be disclosed includes (1) the nature of any restrictions on the entity's use of its cash and cash equivalents, (2) whether the entity's cash and cash equivalents are insured or expose the entity to credit risk, (3) the classification of any negative balance accounts (overdrafts), and (4) the carrying basis of cash equivalents (for example, at cost) and whether the carrying

amount of cash equivalents approximates fair value. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 230 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482913/230-10-50-1> + Details Name: us-gaap_CashAndCashEquivalentsPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for computing basic and diluted earnings or loss per share for each class of common stock and participating security. Addresses all significant policy factors, including any antidilutive items that have been excluded from the computation and takes into account stock dividends, splits and reverse splits that occur after the balance sheet date of the latest reporting period but before the issuance of the financial statements. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482662/260-10-50-1>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482662/260-10-50-1>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482662/260-10-50-2> + Details Name: us-gaap_EarningsPerSharePolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for fair value measurements of financial and non-financial assets, liabilities and instruments classified in shareholders' equity. Disclosures include, but are not limited to, how an entity that manages a group of financial assets and liabilities on the basis of its net exposure measures the fair value of those assets and liabilities. + ReferencesNo definition available. + Details Name: us-gaap_FairValueMeasurementPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for recognizing and measuring the impairment of long-lived assets. An entity also may disclose its accounting policy for long-lived assets to be sold. This policy excludes goodwill and intangible assets. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.CC) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480091/360-10-S99-2>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 05 -Paragraph 4 -SubTopic 10 -Topic 360 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482338/360-10-05-4> + Details Name: us-gaap_ImpairmentOrDisposalOfLongLivedAssetsPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for income taxes, which may include its accounting policies for recognizing and measuring deferred tax assets and liabilities and related valuation allowances, recognizing investment tax credits, operating loss carryforwards, tax credit carryforwards, and other carryforwards, methodologies for determining its effective income tax rate and the characterization of interest and penalties in the financial statements. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482685/740-10-50-20>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 19 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482685/740-10-50-19>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482525/740-10-45-25>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(h)(1)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479886/946-10-S99-3>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482685/740-10-50-17>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482685/740-10-50-9>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482525/740-10-45-28>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482765/220-10-50-1> + Details Name: us-gaap_IncomeTaxPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of inventory accounting policy for inventory classes, including, but not limited to, basis for determining inventory amounts, methods by which amounts are added and removed from inventory classes, loss recognition on impairment of inventories, and situations in which inventories are stated above cost. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(b)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483080/330-10-50-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483489/210-10-50-1>Reference 4: <http://www.xbrl.org/2003/role/exampleRef> -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483426/235-10-50-4>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 912 -SubTopic 330 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478411/912-330-50-1>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 330 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/330/tableOfContent>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483080/330-10-50-4>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Name Accounting Standards Codification -Section 45 -Paragraph 6 -Subparagraph (a) -SubTopic 10 -Topic 270 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482989/270-10-45-6> + Details Name: us-gaap_InventoryPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for leasing arrangement entered into by lessee. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478964/842-20-50-1> + Details Name: us-gaap_LesseeLeasesPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. + ReferencesNo definition available. + Details Name: us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for reclassification affecting comparability of financial statement. Excludes amendment to accounting standards, other change in accounting principle, and correction of error. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 205 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483504/205-10-50-1> + Details Name: us-gaap_PriorPeriodReclassificationAdjustmentDescription Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482099/360-10-50-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)(a)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478777/944-210-S99-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Name Accounting Standards Codification -Section 50 -Paragraph 6 -SubTopic 360 -Topic 958 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477798/958-360-50-6>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -SubTopic 360 -Topic 958 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477798/958-360-50-1> + Details Name: us-gaap_PropertyPlantAndEquipmentPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for costs it has incurred (1) in a planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service, a new process or technique, or in bringing about a significant improvement to an existing product or process; or (2) to translate research findings or other knowledge into a plan or design for a new product or process or for a significant improvement to an existing product or process. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 05 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483044/730-10-05-1> + Details Name: us-gaap_ResearchAndDevelopmentExpensePolicy Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for its research and development and computer software activities including the accounting treatment for costs incurred for (1) research and development activities, (2) development of computer software for internal use, (3) computer software to be sold, leased or otherwise marketed as a separate product or as part of a product or process and (4) in-process research and development acquired in a purchase business combination. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/985-20/tableOfContent>Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 350 -SubTopic 40 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/350-40/tableOfContent>Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 730 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/730/tableOfContent> + Details Name: us-gaap_ResearchDevelopmentAndComputerSoftwarePolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for revenue from contract with customer. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-17>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 19 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-19>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-18>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-20>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-20>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-20>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-20>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-20>Reference 9: <http://www.xbrl.org/2003/role/exampleRef> -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (e) -SubTopic 10 -Topic 235 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483426/235-10-50-4>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Name Accounting Standards Codification -Topic 606 -Publisher FASB -URI <https://asc.fasb.org/606/tableOfContent> + Details Name: us-gaap_RevenueFromContractWithCustomerPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for award under share-based payment arrangement. Includes, but is not limited to, methodology and assumption used in measuring cost. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.C.Q3) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479830/718-10-S99-1>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.D.1.Q5) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479830/718-10-S99-1>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.D.3.Q2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479830/718-10-S99-1>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.D.2.Q6) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479830/718-10-S99-1>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/718/tableOfContent>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationOptionAndIncentivePlansPolicy Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for accounts receivable. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/otherTransitionRef> -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481962/310-10-50-6>Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481962/310-10-50-2>Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481962/310-10-50-2>Reference 4: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481569/310-10-50-1>Reference 5: <http://fasb.org/us-gaap/role/ref/otherTransitionRef> -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481962/310-10-50-15>Reference 6: <http://fasb.org/us-gaap/role/ref/otherTransitionRef> -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11B -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481962/310-10-50-11B> + Details Name: us-gaap_TradeAndOtherAccountsReceivablePolicy Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the nature of the unusual risk or uncertainty, if estimable, such as the threat of expropriation of its assets by a foreign government, rapid technological obsolescence in the industry, risk of natural disaster from earthquake or weather events, and availability of or continuation of a labor force at a reasonable cost. + ReferencesNo definition available. + Details Name: us-gaap_UnusualRisksAndUncertaintiesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 9 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -

[Topic 275 - SubTopic 10 - Section 50 - Paragraph 1 - Subparagraph \(b\) - SubTopic 10 - Topic 275 - Publisher FASB - URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 3:](#) [http://www.xbrl.org/2003/role/disclosureRef - Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(b\) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 4:](#) [http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(c\) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 5:](#) [http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 11 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-11Reference 6:](#) [http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 12 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-12Reference 7:](#) [http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-8 + Details Name: us-gaap_](#) [UseOfEstimates Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 38 R26.htm IDEA: XBRL DOCUMENT v3.24.3 Net Loss per Common Share \(Tables\) 9 Months Ended Sep. 30, 2024 Net Loss per Common Share \[Abstract\] A Schedule of Computation of Basic and Diluted Loss Per Share The following table sets forth the computation of basic and diluted loss per share \(in thousands, except per share data\):](#) [A A Three Months Ended September 30,](#) [A A Nine Months Ended September 30,](#) [A A A 2024 A A 2023 A A 2024 A A 2023 Numerator: A A A A A A A A A A A A A A Net loss \\$ \(5,675 \) A \\$ \(6,841 \) A \\$ \(17,305 \) A \\$ \(20,395 \) Less: Series A convertible preferred stock dividends A A - A A \(215 \) A A - A A \(646 \) Net loss attributable to common stockholders â€” basic and diluted A \\$ \(5,675 \) A \\$ \(7,056 \) A \\$ \(17,305 \) A \\$ \(21,041 \) Denominator: A A A A A A A A A A A A Weighted average shares used in computing net loss per common share â€” basic and diluted A 93,048 A A 71,588 A A 89,063 A A 64,246 A Net loss per common share â€” basic and diluted A \\$ \(0.06 \) A \\$ \(0.10 \) A \\$ \(0.19 \) A \\$ \(0.33 \) Schedule of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti-Dilutive The following is a summary of the weighted average common stock equivalents for the securities outstanding during the respective periods that have been excluded from the computation of diluted net loss per common share, as their effect would be anti-dilutive \(in thousands\):](#) [A A Three Months Ended September 30,A A Nine Months Ended September 30,A A 2024A A 2023A A 2024A A 2023A WarrantsA 2,212A A 5,973A A 2,538A A 6,092A OptionsA 12,407A A 13,069A A 12,882A A 11,410A Unvested restricted common stockA 2,997A A 1,783A A 1,783A A 2,997A Total potentially dilutive sharesA 17,616A A 20,825A A 18,417A A 18,273A X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of securities \(including those issuable pursuant to contingent stock agreements\) that could potentially dilute basic earnings per share \(EPS\) in the future that were not included in the computation of diluted EPS because to do so would increase EPS amounts or decrease loss per share amounts for the period presented, by antidilutive securities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of an entity's basic and diluted earnings per share calculations, including a reconciliation of numerators and denominators of the basic and diluted per-share computations for income from continuing operations. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 39 R27.htm IDEA: XBRL DOCUMENT v3.24.3 Intangible Assets and Goodwill \(Tables\) 9 Months Ended Sep. 30, 2024 Intangible Assets and Goodwill \[Abstract\] A Schedule of Amounts Related to Intangible Assets As a result of the merger with QPhoton in June 2022 \(the “QPhoton Merger”\), the Company has the following amounts related to intangible assets \(in thousands\):](#) [A A September 30, 2024A A December 31, 2023A A A Gross Carrying AmountA A Accumulated AmortizationA A Net Carrying AmountA A Gross Carrying AmountA A Accumulated AmortizationA A Net Carrying Amount Non-complete agreement with founderA \\$3,251A A \(\\$2,528\)A \\$723A A \\$3,251A A \(\\$1,715\)A A \\$1,536A Website domain name and trademarkA 1,009A A 4\(71\)A A 538A A 1,009A A \(320\)A A 689A Technology and licensed patentsA 12,731A A 4\(244\)A A 8,487A A 12,731A A 2\(880\)A A 9,851A TotalA \\$16,991A A \(\\$7,243\)A \\$9,748A A \\$16,991A A \(\\$4,915\)A \\$12,076A A Schedule of Future Amortization Expense The amortization expense of the Company’s intangible assets for the three and nine months ended September 30, 2024 and 2023 was approximately \\$780 thousand and \\$2.3 million, respectively. The Company expects future amortization expense to be the following \(in thousands\):](#) [A A AmortizationA 2024 \(remaining three months\)A \\$776A 2025A 2,472A 2026A 2,021A 2027A 1,903A 2028A 1,819A ThereafterA 757A TotalA \\$9,748A X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of goodwill and intangible assets, which may be broken down by segment or major class. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-30/tableOfContentReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-20/tableOfContent + Details Name: us-gaap_ScheduleOfIntangibleAssetsAndGoodwillTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the amount of amortization expense expected to be recorded in succeeding fiscal years for finite-lived intangible assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2 + Details Name: us-gaap_ScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 40 R28.htm IDEA: XBRL DOCUMENT v3.24.3 Property and Equipment \(Tables\) 9 Months Ended Sep. 30, 2024 Property and Equipment \[Abstract\] A Schedule of Property and Equipment The Company’s property and equipment are primarily located at the Company’s leased facilities in Hoboken, NJ and Tempe, AZ and consist of \(in thousands\):](#) [A A September 30, 2024A A December 31, 2023A Computer and lab equipmentA \\$5,899A A \\$2,999A Network equipmentA 29A A 29A Furniture and fixturesA 32A A 32A SoftwareA 77A A 49A Leasehold improvementsA 275A A 33A Total cost of property and equipmentA 6,312A A 3,142A Accumulated depreciationA \(486\)A A \(272\) Property and equipment, netA \\$5,826A A \\$2,870A The Company recorded depreciation expense of \\$75 thousand and \\$76 thousand during the three months ended September 30, 2024 and 2023, respectively, and \\$214 thousand and \\$203 thousand during the nine months ended September 30, 2024 and 2023, respectively, using useful lives of the Company’s long-lived assets as follows: A Estimated Useful Life \(Years\) Computer and laboratory equipmentA 5 Network equipmentA 4 Furniture and fixturesA 7 SoftwareA 3 Leasehold improvementsA Lessor of lease term or 5 X - ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated depreciation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 41 R29.htm IDEA: XBRL DOCUMENT v3.24.3 Operating Leases \(Tables\) 9 Months Ended Sep. 30, 2024 Operating Leases \[Abstract\] A Schedule of Undiscounted Future Minimum Lease Payments Under Operating Leases The table below reconciles the undiscounted future minimum lease payments under these operating leases to the total operating lease liabilities recognized on the consolidated balance sheet as of September 30, 2024 \(in thousands\):](#) [YearA Lease Payments DueA 2024 \(remaining three months\)A \\$88A 2025A 437A 2026A 591A 2027A 515A 2028A 212A Total minimum paymentsA 1,843A Less: imputed interestA \(161\) Present value of operating lease liabilitiesA 1,682A Less: current portion included in other current liabilitiesA \(385\) Long-term operating lease liabilitiesA \\$1,297A Schedule of Other Information Related to Operating Lease Liabilities Other information related to operating lease liabilities consists of the following \(in thousands\):](#) [A A Three Months Ended September 30,A A Nine Months Ended September 30,A A 2024A A 2023A A 2024A A 2023A Cash paid for operating lease liabilities \(in thousands\)A \\$117A A \\$92A A \\$274A A \\$214A Weighted average remaining lease term in yearsA 3.5A A 3.9A A 3.5A A 3.9A Weighted average discount rateA 10% A 10% A 10% A 10% A 10% X - DefinitionTabular disclosure of lessee's lease cost. Includes, but is not limited to, interest expense for finance lease, amortization of right-of-use asset for finance lease, operating lease cost, short-term lease cost, variable lease cost and sublease income. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_LeaseCostTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_LeasesOperatingAbstract Namespace Prefix: us-gaap_ Data Type: x](#)

Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of option exercise prices, by grouped ranges, including the upper and lower limits of the price range, the number of shares under option, weighted average exercise price and remaining contractual option terms. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ScheduleOfShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure for stock option plans. Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_ScheduleOfShareBasedPaymentAwardStockOptionsValuationAssumptionsTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 45 R33.htm IDEA: XBRL DOCUMENT v3.24 Nature of the Organization and Business (Details) - USD (\$) \$ / shares in Units, \$ in Thousands 9 Months Ended Sep. 30, 2024 Dec. 31, 2023 Jul. 20, 2018 Nature of the Organization and Business [Line Items] A A A Incorporation date Jul. 20, 2018 A A Common stock, par value (in Dollars per share) 0.0001 0.0001 A Cash and cash equivalents 3,064 2,059 A Accumulated deficit (149,245) \$ (131,940) A Working capital \$ 1,500 A A Corporate History [Member] A A Nature of the Organization and Business [Line Items] A A Common stock, par value (in Dollars per share) A A 0.0001 X - DefinitionDate when an entity was incorporated + ReferencesNo definition available. + Details Name: dei_EntityIncorporationDateOfIncorporation Namespace Prefix: dei_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionWorking capital deficit. + ReferencesNo definition available. + Details Name: qub WorkingCapitalDeficit Namespace Prefix: qub_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5](http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5) + Details Name: us-gaap_BusinessAcquisitionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(1\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(3\)\(a\)\(3\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(3)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-1> + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-1> + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-1> + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-1> + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1:

http://www.xbrl.org/2003/role/disclosureRef -Topic 805 - SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 - SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 - SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 - SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 - SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 - SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 - SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 - SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 - SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 - SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 - SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 - SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 - SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 - SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 - SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 - SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 - SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 - SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 - SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 - SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 - SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 - SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 - SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/commonPracticeRef -Topic 470 - SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13

Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Schedule of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti-Dilutive [Line Items] Á Á Á Total potentially dilutive shares 17,616 20,825 18,417 18,273 Warrants [Member] Á Á Á Schedule of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti-Dilutive [Line Items] Á Á Á Total potentially dilutive shares 2,212 5,973 2,538 6,092 Options [Member] Á Á Á Schedule of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti-Dilutive [Line Items] Á Á Á Total potentially dilutive shares 12,407 13,069 12,882 11,410 Unvested restricted common stock [Member] Á Á Á Schedule of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti-Dilutive [Line Items] Á Á Á Total potentially dilutive shares 2,997 1,783 2,997 771 X - Definition Securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482662/260-10-50-1) + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_StockOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_RestrictedStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 49 R37.htm IDEA: XBRL DOCUMENT v3.24.3 Income Taxes (Details) \$ in Thousands 9 Months Ended Sep. 30, 2024 USD (\$) Income Taxes [Abstract] Á Federal income tax rate 21.00% Tax-effected carryforwards \$ 15,600 Carryforwards assumed tax rate 26.00% Net deferred tax assets \$ 11,700 Capitalized research and development expenditures 2,500 Intangible asset 1,100 Valuation allowance increased 4,000 Federal R&D credit carryforwards \$ 623 X - DefinitionAmount, after allocation of valuation allowances and deferred tax liability, of deferred tax asset attributable to deductible differences and carryforwards, without jurisdictional netting. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-2> + Details Name: us-gaap_DeferredTaxAssetsLiabilitiesNet Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount before allocation of valuation allowances of deferred tax asset attributable to deductible operating loss carryforwards. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6> + Details Name: us-gaap_DeferredTaxAssetsOperatingLossCarryforwards Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount before allocation of valuation allowances of deferred tax asset attributable to deductible research tax credit carryforwards. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6> + Details Name: us-gaap_DeferredTaxAssetsTaxCreditCarryforwardsResearch Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of deferred tax liability attributable to taxable temporary differences from research and development costs. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6> + Details Name: us-gaap_DeferredTaxLiabilitiesDeferredExpenseCapitalizedResearchAndDevelopmentCosts Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of deferred tax liability attributable to taxable temporary differences from intangible assets other than goodwill. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6> + Details Name: us-gaap_DeferredTaxLiabilitiesGoodwillAndIntangibleAssetsIntangibleAssets Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPercentage of domestic federal statutory tax rate applicable to pretax income (loss). + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SAB Topic 6.1.1.Q1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479360/740-10-599-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SAB Topic 6.1.1.Q1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479360/740-10-599-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210.4-08\(h\)\(2\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-599-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210.4-08(h)(2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-599-1) + Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationAtFederalStatutoryIncomeTaxRate Namespace Prefix: us-gaap_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations attributable to changes in the income tax rates. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph \(a\)\(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph (a)(3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A)Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210.4-08\(h\)\(2\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-599-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210.4-08(h)(2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-599-1) + Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationChangeInEnactedTaxRate Namespace Prefix: us-gaap_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of increase (decrease) in the valuation allowance for a specified deferred tax asset. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-2> + Details Name: us-gaap_ValuationAllowanceDeferredTaxAssetChangeAmount Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 50 R38.htm IDEA: XBRL DOCUMENT v3.24.3 Intangible Assets and Goodwill (Details) - USD (\$) \$ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Dec. 31, 2023 Intangible Assets and Goodwill [Abstract] Á Á Á Á Amortization expense of intangible assets \$ 780 \$ 780 \$ 2,300 \$ 2,300 Á Goodwill \$ 55,573 Á \$ 55,573 Á \$ 55,573 X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210.9-03\(10\)\(1\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478546/942-210-599-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210.9-03(10)(1))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478546/942-210-599-1) + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 51 R39.htm IDEA: XBRL DOCUMENT v3.24.3 Intangible Assets and Goodwill (Details) - Schedule of Amounts Related to Intangible Assets - USD (\$) \$ in Thousands Sep. 30, 2024 Dec. 31, 2023 Schedule of Amounts Related to Intangible Assets [Line Items] Á Á Gross Carrying Amount \$ 16,991 \$ 16,991 Accumulated Amortization (7,243) (4,915) Net Carrying Amount 9,748 12,076 Non-complete agreement with founder [Member] Á Á Schedule of Amounts Related to Intangible Assets [Line Items] Á Á Gross Carrying Amount 3,251 3,251 Accumulated Amortization (2,528) (1,715) Net Carrying Amount 723 1,536 Website domain name and trademark [Member] Á Á Schedule of Amounts Related to Intangible Assets [Line Items] Á Á Gross Carrying Amount 1,009 1,009 Accumulated Amortization (471) (320) Net Carrying Amount 538 689 Technology and licensed patents [Member] Á Á Schedule of Amounts Related to Intangible Assets [Line Items] Á Á Gross Carrying Amount 12,731 12,731 Accumulated Amortization (4,244) (2,880) Net Carrying Amount \$ 8,487 \$ 9,851 X - DefinitionAccumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 10-Name Accounting Standards Codification-Section 545-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147480265/350-10-545-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210.5-02\(16\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210.5-02(16))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1) + Details Name: us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 10-Name Accounting Standards Codification-Section 545-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147480265/350-10-545-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 985-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147483154/926-20-50-5> + Details Name: us-gaap_FiniteLivedIntangibleAssetsLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 926-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org/1943274/2147483154/926-20-50-5> + Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_TrademarksAndTradeNamesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_TechnologyAndLicensedPatentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 52 R40.htm IDEA: XBRL DOCUMENT v3.24.3 Intangible Assets and Goodwill (Details) - Schedule of Future Amortization Expense - USD (\$) \$ in Thousands Sep. 30, 2024 Dec. 31, 2023 Schedule of Future Amortization Expense [Abstract] Á Á 2024 (remaining three months) \$ 776 Á 2025 2,472 Á 2026 2,021 Á 2027 1,903 Á 2028 1,819 Á Thereafter 757 Á Total \$ 9,748 \$ 12,076 X - DefinitionAmount of

amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <https://www.xbrli.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: <http://www.xbrli.org/2003/role/disclosureRef-Topic 985-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrli.org/2009/role/commonPracticeRef-Topic 985-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrli.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: <http://www.xbrli.org/2003/role/disclosureRef-Topic 985-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFive Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrli.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: <http://www.xbrli.org/2003/role/disclosureRef-Topic 985-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrli.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: <http://www.xbrli.org/2003/role/disclosureRef-Topic 985-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrli.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrli.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: <http://www.xbrli.org/2003/role/disclosureRef-Topic 985-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_FiniteLivedIntangibleAssetsFutureAmortizationExpenseAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: [http://www.xbrli.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrli.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 2: <http://www.xbrli.org/2003/role/disclosureRef-Topic 926-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org/1943274/2147483154/926-20-50-5> + Details Name: us-gaap_FiniteLivedIntangibleAssetsNet Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 53 R41.htm IDEA: XBRL DOCUMENT v3.24.3 Property and Equipment (Details) - USD (\$) \$ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Property and Equipment [Abstract] Å Å Å Depreciation expense \$ 75 \$ 76 \$ 214 \$ 203 X - DefinitionThe amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 360-SubTopic 10-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 360-SubTopic 10-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482099/360-10-50-1) + Details Name: us-gaap_Depreciation Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 54 R42.htm IDEA: XBRL DOCUMENT v3.24.3 Property and Equipment (Details) - Schedule of Property and Equipment - USD (\$) \$ in Thousands 9 Months Ended Sep. 30, 2024 Dec. 31, 2023 Property Plant and Equipment [Line Items] Å Å Total cost of property and equipment \$ 6,312 \$ 3,142 Accumulated depreciation (486) (272) Property and equipment, net 5,826 2,870 Computer and lab equipment [Member] Å Å Property Plant and Equipment [Line Items] Å Å Total cost of property and equipment \$ 5,899 2,999 Estimated Useful Life 5 years Å Network Equipment [Member] Å Å Property Plant and Equipment [Line Items] Å Å Total cost of property and equipment \$ 29 29 Estimated Useful Life 4 years Å Furniture and Fixtures [Member] Å Å Property Plant and Equipment [Line Items] Å Å Total cost of property and equipment \$ 32 32 Estimated Useful Life 7 years Å Software [Member] Å Å Property Plant and Equipment [Line Items] Å Å Total cost of property and equipment \$ 77 49 Estimated Useful Life 3 years Å Leasehold Improvements [Member] Å Å Property Plant and Equipment [Line Items] Å Å Total cost of property and equipment \$ 275 \$ 33 Estimated Useful Life Lessor of lease term or 5 Å X - DefinitionRepresent the estimated useful life. + ReferencesNo definition available. + Details Name: qubt_EstimatedUsefulLife Namespace Prefix: qubt_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services. + ReferencesReference 1: [http://www.xbrli.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(8\)\(b\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrli.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(8)(b))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 2: [http://www.xbrli.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(14\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrli.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(14))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 360-SubTopic 10-Section 50-Paragraph 1-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 360-SubTopic 10-Section 50-Paragraph 1-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482099/360-10-50-1) + Details Name: us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: [http://www.xbrli.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(8\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrli.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(8))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 2: [http://www.xbrli.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(13\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrli.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(13))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 360-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 360-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482099/360-10-50-1) + Details Name: us-gaap_PropertyPlantAndEquipmentGross Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: [http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 7A-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-7A](http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 7A-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-7A) + Details Name: us-gaap_PropertyPlantAndEquipmentLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 1-SubTopic 10-Topic 360-Publisher FASB-URI https://asc.fasb.org/1943274/2147482099/360-10-50-1>Reference 2: [http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 7A-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-7A](http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 7A-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-7A)Reference 3: <http://www.xbrli.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 4: [http://www.xbrli.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(8\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrli.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(8))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 5: <http://www.xbrli.org/2003/role/disclosureRef-Topic 942-SubTopic 360-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147478451/942-360-50-1> + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionUseful life of long lived, physical assets used in the normal conduct of business and not intended for resale, in 'PnYnMnDtHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Examples include, but not limited to, land, buildings, machinery and equipment, office equipment, furniture and fixtures, and computer equipment. + ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentUsefulLife Namespace Prefix: us-gaap_Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_ComputerEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=qubt_NetworkEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_FurnitureAndFixturesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_SoftwareDevelopmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_LeaseholdImprovementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 55 R43.htm IDEA: XBRL DOCUMENT v3.24.3 Operating Leases (Details) - Schedule of Undiscounted Future Minimum Lease Payments Under Operating Leases - USD (\$) \$ in Thousands Sep. 30, 2024 Dec. 31, 2023 Schedule of Undiscounted Future Minimum Lease Payments Under Operating Leases [Abstract] Å Å 2024 (remaining three months) \$ 88 Å 2025 437 Å 2026 591 Å 2027 515 Å 2028 212 Å Total minimum payments 1,843 Å Less: imputed interest (161) Å Present value of operating lease liabilities 1,682 Å Less: current portion included in other current liabilities (385) Å Long-term operating lease liabilities \$ 1,297 \$ 840 X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease. + ReferencesReference 1: <http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrli.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease. + ReferencesReference 1: <http://www.xbrli.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-6>

<https://asc.fasb.org/1943274/2147478964/842-20-50-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1) + Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1) + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1) + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_OperatingLeasesFutureMinimumPaymentsDueAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemBalance Type: na Period Type: duration XML 56 R44.htm IDEA: XBRL DOCUMENT v3.24.3 Operating Leases (Details) - Schedule of Other Information Related to Operating Lease Liabilities - USD (\$) (\$ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2024 Sep. 30, 2023 Schedule of Other Information Related Operating Lease Liabilities [Abstract] Á Á Á Á Cash paid for operating lease liabilities \$ 117 \$ 92 \$ 274 \$ 214 Weighted average remaining lease term in years 3 years 6 months 3 years 10 months 24 days 3 years 6 months 3 years 10 months 24 days Weighted average discount rate 10.00% 10.00% 10.00% 10.00% X - ReferencesNo definition available. + Details Name: us-gaap_LeaseCostAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemBalance Type: na Period Type: duration X - DefinitionAmount of cash outflow from operating lease, excluding payments to bring another asset to condition and location necessary for its intended use. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(g\)\(1\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4) + Details Name: us-gaap_OperatingLeasePayments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionWeighted average discount rate for operating lease calculated at point in time. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(g\)\(4\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4) + Details Name: us-gaap_OperatingLeaseWeightedAverageDiscountRatePercent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemBalance Type: na Period Type: instant X - DefinitionWeighted average remaining lease term for operating lease, in 'PnYmMnDtnHmMns' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(g\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4) + Details Name: us-gaap_OperatingLeaseWeightedAverageRemainingLeaseTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemBalance Type: na Period Type: instant XML 57 R45.htm IDEA: XBRL DOCUMENT v3.24.3 Financial Liabilities (Details) - USD (\$) (\$ 9 Months Ended 12 Months Ended Feb. 06, 2025 Aug. 06, 2024 Sep. 23, 2022 Sep. 30, 2024 Dec. 31, 2023 Mar. 23, 2023 Financial Liabilities [Line Items] Á Á Á Á Accrued interest payable Á Á Á \$ 122,000 Á 14,000 Á Received fee Á \$ 450,000 Á Á Á Á Other issuance costs Á 55,000 Á Á Á Á Redeem of streeterville convertible note Á Á Á Á \$ 750,000 Derivative Liability Á Á Á 666,000 Á Outstanding balance Á Á Á Á Á Unsecured Promissory Note [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Initial principal amount Á 8,250,000 Á Á Á Á Original issue discount Á 750,000 Á Á Á Á Cash for streeterville convertible note Á \$ 7,500,000 Á Á Á Á Streeterville [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Interest percentage Á 10.00% Á Á Á Á Streeterville Unsecured Note [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Initial principal amount Á Á \$ 8,250,000 Á Á Á Á Interest percentage Á Á 10.00% Á Á Á Maturity date Á Á 18 months Á Á Á Á Original issue discount Á Á \$ 750,000 Á Á Á Á Streeterville Capital, LLC [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Outstanding balance Á Á Á \$ 1,900,000 Á Forecast [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Closing trade percentage 8.00% Á Á Á Á Conversion price equal rate 92.00% Á Á Á Á Á Common Stock exceeding percentage 4.99% Á Á Á Á Á Minimum market capitalization value \$ 10,000,000 Á Á Á Á Aggregate sales of Conversion percentage 10.00% Á Á Á Á Á Derivative Liability \$ 666,000 Á Á Á Á Á Accruing outstanding balance percentage 15.00% Á Á Á Á Forecast [Member] | Unsecured Promissory Note [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Redeem of streeterville convertible note \$ 750,000 Á Á Á Á Forecast [Member] | Streeterville [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Redemption amount 10.00% Á Á Á Á Forecast [Member] | Minimum [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Market capitalization percentage 9.99% Á Á Á Á Outstanding balance percentage 5.00% Á Á Á Á Forecast [Member] | Maximum [Member] Á Á Á Á Á Financial Liabilities [Line Items] Á Á Á Á Á Outstanding balance percentage 10.00% Á Á Á Á X - DefinitionCommon stock exceeding percentage. + ReferencesNo definition available. + Details Name: qubt_CommonStockExceedingPercentage Namespace Prefix: qubt_ Data Type: dtr:percentItemBalance Type: na Period Type: duration X - DefinitionMarket capitalization percentage + ReferencesNo definition available. + Details Name: qubt_MarketCapitalizationPercentage Namespace Prefix: qubt_ Data Type: dtr:percentItemBalance Type: na Period Type: duration X - DefinitionAmount of minimum market capitalization value. + ReferencesNo definition available. + Details Name: qubt_MinimumMarketCapitalizationValue Namespace Prefix: qubt_ Data Type: xbrli:monetaryItemBalance Type: debit Period Type: instant X - DefinitionDebt instrument discount issued. + ReferencesNo definition available. + Details Name: qubt_OriginalIssueDiscount Namespace Prefix: qubt_ Data Type: xbrli:monetaryItemBalance Type: debit Period Type: instant X - DefinitionPercentage of nonaccrual to total financing receivable outstanding. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-03\(15\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Name Regulation S-K (SK) -Number 229 -Section 1405 -Paragraph a -Subparagraph (2) -Publisher SEC + Details Name: srt_FinancingReceivableNonaccrualToOutstandingPercent Namespace Prefix: srt_ Data Type: dtr-types:percentItemBalance Type: na Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. + ReferencesReference 1: <a href=) + Details Name: us-gaap_AccruedLiabilitiesCurrentAndNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemBalance Type: credit Period Type: instant X - DefinitionAmount of noncash expense included in interest expense to amortize debt discount and premium associated with the related debt instruments. Excludes amortization of financing costs. Alternate captions include noncash interest expense. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(b\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.5-03\(8\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph \(b\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1F](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1F)Reference 4: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3> + Details Name: us-gaap_AmortizationOfDebtDiscountPremium Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionAverage amount outstanding of commercial paper. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Name Regulation S-K (SK) -Number 229 -Section 1402 -Paragraph a -Publisher SECReference 2: http://www.xbrl.org/2003/role/disclosureRef-Name Regulation S-K (SK) -Number 229 -Section 1402 -Paragraph b -Subparagraph (1) -Publisher SEC + Details Name: us-gaap_CommercialPaperAverageOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemBalance Type: credit Period Type: duration X - DefinitionIncluding the current and noncurrent portions, carrying amount of debt identified as being convertible into another form of financial instrument (typically the entity's common stock) as of the balance sheet date, which originally required full repayment more than twelve months after issuance or greater than the normal operating cycle of the company. + ReferencesReference 1: <a href=)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-03\(16\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1)Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(16\)\(a\)\(2\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1) + Details Name: us-gaap_ConvertibleDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemBalance Type: credit Period Type: instant X - DefinitionDividend or interest rate associated with the financial instrument issued in exchange for the original debt being converted in a noncash or part noncash transaction. Noncash are transactions that affect recognized assets or liabilities but that do not result in cash receipts or cash payments. Part noncash refers to that portion of the transaction not resulting in cash receipts or cash payments. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5> + Details Name: us-gaap_DebtConversionConvertedInstrumentRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemBalance Type: na Period Type: duration X - DefinitionAmount of annual principal payment for debt instrument. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_DebtInstrumentAnnualPrincipalPayment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemBalance Type: debit Period Type: instant X - DefinitionMinimum percentage of common stock price to conversion price of convertible debt instruments to determine eligibility of conversion. + ReferencesNo definition available. + Details Name: us-gaap_DebtInstrumentConvertibleThresholdPercentageOfStockPriceTrigger Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemBalance Type: na Period Type: duration X - DefinitionEffective interest rate for the funds borrowed under the debt agreement considering interest compounding and original issue discount or premium. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\(a\)\(1\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-6](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-6) + Details Name: us-gaap_DebtInstrumentInterestRateEffectivePercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemBalance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(f\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.12-04\(a\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 5: <http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69B>Reference 6: <http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69C>Reference 7: <http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69E>Reference 8: <http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69F>Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 11: [http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(e\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(g\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(h\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 16: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D)Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E)Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E)Reference 20: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E)Reference 21: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph \(e\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E)Reference 22: [http://](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E)

graph TD; A["Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNumber of securities into which the class of warrant or right may be converted. For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3 + Details Name: us-gaap_ClassOfWarrantOrRightNamespace Prefix: us-gaap_Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionThe number of shares converted in a noncash (or part noncash) transaction. Noncash is defined as transactions during a period that do not result in cash receipts or cash payments in the period. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_ConversionOfStockSharesConverted1 Namespace Prefix: us-gaap_Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionThe number of new shares issued in the conversion of stock in a noncash (or part noncash) transaction. Noncash is defined as transactions during a period that do not result in cash receipts or cash payments in the period. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_ConversionOfStockSharesIssued1 Namespace Prefix: us-gaap_Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionThe percentage of ownership of common stock or equity participation in the investee accounted for under the equity method of accounting. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3 + Details Name: us-gaap_EquityMethodInvestmentOwnershipPercentage Namespace Prefix: us-gaap_Data Type: dtr-types:percentItem Type Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 720 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483359/720-20-50-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 27 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482395/460-10-55-27Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-1 + Details Name: us-gaap_LossContingenciesLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount of liabilities classified as other, due within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10 + Details Name: us-gaap_OtherLiabilitiesCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionA device of credit enhancement where a part of the purchase price for the receivable/payable is retained to serve as a cash collateral. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_SupplementalDeferredPurchasePrice Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - Details Name: us-gaap_ClassOfWarrantOrRightAxis=us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ClassOfWarrantOrRightAxis=qubt_UnissuedQPhotonWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_CommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=qubt_BVAdvisoryMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis=qubt_BVAdvisoryPartnersLLCMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesBPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=qubt_UnissuedQPhotonSharesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML B1 R49.htm IDEA: XBRL DOCUMENT v3.24.3 Capital Stock (Details) - USD (\$) 3 Months Ended 9 Months Ended Mar. 19, 2024 Aug. 17, 2023 Feb. 09, 2023 Oct. 28, 2022 Jun. 16, 2022 Jun. 13, 2022 Nov. 17, 2021 Sep. 30, 2024 Sep. 30, 2023 [1] Sep. 30, 2024 Sep. 30, 2023 Dec. 31, 2023 Nov. 30, 2021 Aug. 31, 2020 Capital Stock [Line Items] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Conversion price per share (in Dollars per share) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Warrants term \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 2 years \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Reclassification of Series A preferred stock to mezzanine equity (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Sales of equity (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 100,000,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Aggregate offering price (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Net proceeds (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 14,600,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Issued warrants shares \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 6,300,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Exercise price per share (in Dollars per share) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 0.0001 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Issued warrants price (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 6,300,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Warrants (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 7,000,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Forfeited percentage \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 66.00% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Recognized mark-to-market gains (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 13,000 (384,000) [1],[2] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ QPhoton Warrants [Member] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Capital Stock [Line Items] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Issued warrants price (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 6,300,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Warrant [Member] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Capital Stock [Line Items] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Exercise price (in Dollars per share) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 2.27 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Recognized mark-to-market gains (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 144,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Minimum [Member] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Capital Stock [Line Items] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Purchase of warrants \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 1,726,931 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Sales of equity (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Maximum [Member] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Capital Stock [Line Items] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Purchase of warrants \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 7,028,337 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Sales of equity (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 50,000,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Preferred Stock [Member] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Capital Stock [Line Items] \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Reclassification of Series A preferred stock to mezzanine equity (in Dollars) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Redeemed, shares \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 248,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ Restricted Stock Units (RSUs)

<http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference> 16: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference> 17: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(ii)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference> 18: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(ii)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479886/946-10-S99-3> + Details Name: us-gaap_ClassOfStockLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionExercise price per share or per unit of warrants or rights outstanding. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-3> + Details Name: us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1 Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNumber of securities into which the class of warrant or right may be converted. For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-3> + Details Name: us-gaap_ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of warrants or rights outstanding. + ReferencesNo definition available. + Details Name: us-gaap_ClassOfWarrantOrRightOutstanding Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe number of shares converted in a noncash (or part noncash) transaction. Noncash is defined as transactions during a period that do not result in cash receipts or cash payments in the period. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482913/230-10-50-4Reference> 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference> 3: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482913/230-10-50-5> + Details Name: us-gaap_ConversionOfStockSharesConverted1 Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe number of warrants issued in exchange for the original debt being converted in a noncash (or part noncash) transaction. "Part noncash" refers to that portion of the transaction not resulting in cash receipts or cash payments in the period. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference> 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482913/230-10-50-5> + Details Name: us-gaap_DebtConversionConvertedInstrumentWarrantsOrOptionsIssued1 Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionAmount of expense (income) related to adjustment to fair value of warrant liability. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference> 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 25 -Paragraph 13 -SubTopic 10 -Topic 480 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481766/480-10-25-13> + Details Name: us-gaap_FairValueAdjustmentOfWarrants Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPer share conversion price of preferred stock. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-13> + Details Name: us-gaap_PREFERRED STOCK CONVERTIBLE CONVERSION PRICE Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe percentage rate used to calculate dividend payments on preferred stock. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-13Reference> 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.12-12A(Column A)(Footnote 3)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477271/946-320-S99-2Reference> 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.12-12(Column A)(Footnote 4)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477271/946-320-S99-1Reference> 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-12B(Column A)(Footnote 3)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477271/946-320-S99-3Reference> 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 6 -Subparagraph (SX 210.12-14(Column A)(Footnote 3)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477271/946-320-S99-6> + Details Name: us-gaap_PREFERRED STOCK DIVIDEND RATE PERCENTAGE Namespace Prefix: us-gaap_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-13> + Details Name: us-gaap_PREFERRED STOCK PAR OR STATED VALUE PER SHARE Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1> + Details Name: us-gaap_PREFERRED STOCK SHARES AUTHORIZED Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-13> + Details Name: us-gaap_PREFERRED STOCK SHARES ISSUED Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference> 3: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference> 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference> 5: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3> + Details Name: us-gaap_PREFERRED STOCK SHARES OUTSTANDING Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe cash inflow from additional borrowings, net of cash paid to third parties in connection with debt origination. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-14> + Details Name: us-gaap_ProceedsFromDebtNetOfIssuanceCosts Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from issuance of rights to purchase common shares at predetermined price (usually issued together with corporate debt). + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-14> + Details Name: us-gaap_ProceedsFromIssuanceOfWarrants Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from the issuance of common stock, preferred stock, treasury stock, stock options, and other types of equity. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-14Reference> 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479886/946-10-S99-3> + Details Name: us-gaap_ProceedsFromIssuanceOrSaleOfEquity Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe expense charged against earnings for the period pertaining to standard and extended warranties on the entity's goods and services granted to customers. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference> 2: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482425/460-10-50-8> + Details Name: us-gaap_ProductWarrantyExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe difference between the carrying amount of a financial instrument subject to a registration payment arrangement recorded as temporary equity prior to adoption of FSP EITF 00-19-2 and the carrying amount reclassified to permanent equity upon the adoption of FSP EITF 00-19-2. Recorded as a cumulative effect adjustment to the beginning balance of retained earnings. Does not apply to registration payment arrangements that are no longer outstanding upon adoption of FSP EITF 00-19-2. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 480 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3A -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480244/480-10-S99-3Reference> 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480237/815-40-50-3> + Details Name: us-gaap_ReclassificationsOfTemporaryToPermanentEquity Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe number of shares issued or sold by the subsidiary or equity method investee per stock transaction. + ReferencesNo definition available. + Details Name: us-gaap_SaleOfStockNumberOfSharesIssuedInTransaction Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionPer share amount received by subsidiary or equity investee for each share of common stock issued or sold in the stock transaction. + ReferencesNo definition available. + Details Name: us-gaap_SaleOfStockPricePerShare Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionPrice of a single share of a number of saleable stocks of a company. + ReferencesNo definition available. + Details Name: us-gaap_SharePrice Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionValue of preferred stock and warrants for common stock issued. + ReferencesNo definition available. + Details Name: us-gaap_StockAndWarrantsIssuedDuringPeriodValuePreferredStockAndWarrants Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares of common and preferred stock issued as dividends during the period. Excludes stock splits. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-2> + Details Name: us-gaap_StockDividendsShares Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares of stock issued during the period as part of a transaction to acquire assets that do not qualify as a business combination. + ReferencesNo definition available. + Details Name: us-gaap_StockIssuedDuringPeriodSharesPurchaseOfAssets Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of stock bought back by the entity at the exercise price or redemption price. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-2> + Details Name: us-gaap_StockRedeemedOrCalledDuringPeriodShares Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionEquity impact of the value of stock bought back by the entity at the exercise price or redemption price. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-2> + Details Name: us-gaap_StockRedeemedOrCalledDuringPeriodValue Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPer share increase in exercise price of warrant. Excludes change due to standard antidilution provision. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-3> + Details Name: us-gaap_WarrantExercisePriceIncrease Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionPeriod between issuance and expiration of outstanding warrant and right embodying unconditional obligation requiring redemption by transferring asset at specified or determinable date or upon event certain to occur, in 'PnYnMnDtnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference> 2: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference> 3: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482106/820-10-50-2> + Details Name: us-gaap_WarrantsAndRightsOutstandingTerm Namespace Prefix: us-gaap_Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_ClassOfWarrantOrRightAxis=us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_PreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=us-gaap_PhotonMergerMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-

gaap_StatementClassOfStockAxis=us-gaap_SeriesBPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyOrRightAxis=qubt_PreferredWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=qubt_FalconCapitalPartnersMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=qubt_GreenfieldChildrenLLCMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_SeriesBPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_CommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsidiarySaleOfStockAxis=qubt_CapitalStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsidiarySaleOfStockAxis=qubt_OtherOfferingsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 62 R50.htm IDEA: XBRL DOCUMENT v3.24.3 Capital Stock (Details) - Schedule of Warrants Outstanding - Warrant [Member] shares in Thousands 9 Months Ended Sep. 30, 2024 \$ / shares shares August 18, 2020 [Member] A Schedule of Warrants Outstanding [Line Items] A Expiration Date Aug. 18, 2025 Exercise Price (in Dollars per share) | \$ / shares \$ 2 Issued 171 Exercised (150) Forfeited / Canceled Warrants Outstanding 21 November 15, 2021 [Member] A Schedule of Warrants Outstanding [Line Items] A Expiration Date Nov. 15, 2023 Exercise Price (in Dollars per share) | \$ / shares \$ 7 Issued 1,545 Forfeited / Canceled (1,545) Warrants Outstanding June 16, 2022 [Member] A Schedule of Warrants Outstanding [Line Items] A Expiration Date May 09, 2027 Exercise Price (in Dollars per share) | \$ / shares \$ 0.0001 Issued 6,325 Exercised Forfeited / Canceled (4,148) Warrants Outstanding 2,177 X - DefinitionExpiration date of warrants or rights. + ReferencesNo definition available. + Details Name: qubt_ClassOfWarrantOrRightExpirationDate Namespace Prefix: qubt_ Data Type: xbrli:dateItem Type Balance Type: na Period Type: duration X - DefinitionExercise price per share or per unit of warrants or rights outstanding. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3> + Details Name: us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_ClassOfWarrantOrRightLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionNumber of warrants or rights outstanding. + ReferencesNo definition available. + Details Name: us-gaap_ClassOfWarrantOrRightOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that were forfeited during the reporting period. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\)\(2\)\(iii\)\(03\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c)(2)(iii)(03)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionThe number of grants made during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\)\(2\)\(iii\)\(01\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c)(2)(iii)(01)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionNumber of non-option equity instruments exercised by participants. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\)\(1\)\(iv\)\(02\)-SubTopic 10-Topic 718-Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c)(1)(iv)(02)-SubTopic 10-Topic 718-Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNonOptionEquityInstrumentsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - 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Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_November152021Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_June162022Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qubt_August182020Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardDateAxis=qub

us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionValue, after forfeiture, of shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP). + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_StockIssuedDuringPeriodValueShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: duration X - Details Name: us-gaap_DerivativeInstrumentRiskAxis=us-gaap_StockOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PlanNameAxis=qubt_TwoThousandAndNineteenEquityAndIncentivePlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PlanNameAxis=qubt_TwoThousandAndTwentyTwoEquityAndIncentivePlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=qubt_TwoZeroTwoThreeIncentiveSharesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=qubt_RetentionIncentiveSharesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: qubt_AgreementAxis=qubt_SeparationAgreementSharesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap_CommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=srt_ScenarioForecastMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 64 R52.htm IDEA: XBRL DOCUMENT v3.24.3 Stock-Based Compensation (Details) - Schedule of Option Activity - $ / shares shares in Thousands 9 Months Ended 12 Months Ended Sep. 30, 2024 Dec. 31, 2023 Schedule of Option Activity [Abstract] Á Á Number Outstanding, Outstanding balance 12,369 13,843 Weighted Average Exercise Price per Share, Outstanding balance $ 2.41 $ 2.64 Weighted Average Remaining Contractual Life (Years), Outstanding balance 3 years 1 month 6 days 3 years 8 months 12 days Number Outstanding, Vested and exercisable 8,375 Á Weighted Average Exercise Price per Share, Vested and exercisable $ 2.87 Á Weighted Average Remaining Contractual Life (Years), Vested and exercisable 2 years 9 months 18 days Á Number Outstanding, Granted 250 Á Weighted Average Exercise Price per Share, Granted $ 1.01 Á Weighted Average Remaining Contractual Life (Years), Granted 5 years Á Number Outstanding, Exercised Á Weighted Average Exercise Price per Share, Exercised Á Weighted Average Remaining Contractual Life (Years), Exercised Á Number Outstanding, Forfeited (1,724) Á Weighted Average Exercise Price per Share, Forfeited $ 4.11 Á Weighted Average Remaining Contractual Life (Years), Forfeited Á X - DefinitionWeighted average remaining contractual term for forfeited portions of options outstanding and currently exercisable or convertible, in 'PnYnMndTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: qubt_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsForfeitedWeightedAverageRemainingContractualTerm1 Namespace Prefix: qubt_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for vested portions of options outstanding and currently exercisable or convertible, in 'PnYnMndTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: qubt_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsGrantedWeightedAverageRemainingContractualTerm1 Namespace Prefix: qubt_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual life (years), exercised. + ReferencesNo definition available. + Details Name: qubt_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsWeightedAverageRemainingContractualLifeYearsExercised Namespace Prefix: qubt_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionThe number of shares under options that were cancelled during the reporting period as a result of occurrence of a terminating event specified in contractual agreements pertaining to the stock option plan. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionGross number of share options (or share units) granted during the period. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionNumber of options outstanding, including both vested and non-vested options. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average price at which grantees can acquire the shares reserved for issuance under the stock option plan. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestExercisableNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionWeighted-average exercise price, at which grantee can acquire shares reserved for issuance, for fully vested and expected to vest exercisable or convertible options. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestExercisableNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionWeighted average price at which grantees can acquire the shares reserved for issuance, for fully vested and expected to vest exercisable or convertible options. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestExercisableWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionWeighted average price at which option holders acquired shares when converting their stock options into shares. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average price at which grantees could have acquired the underlying shares with respect to stock options that were terminated. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsForfeituresInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average per share amount at which grantees can acquire shares of common stock by exercise of options. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI [http://fasb.org/us-gaap/role/ref/legacyRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for option awards outstanding, in 'PnYnMndTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Subparagraph (e)(1) -Name Accounting Standards Codification -Paragraph 2 -Section 50 -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsOutstandingWeightedAverageRemainingContractualTerm2 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for fully vested and expected to vest exercisable or convertible options, in 'PnYnMndTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI [http://fasb.org/us-gaap/role/ref/legacyRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedAndExpectedToVestExercisableWeightedAverageRemainingContractualTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: <a href=) -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI <https://asc.fasb.org/1943274/214748112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration XML 65 R53.htm IDEA: XBRL DOCUMENT v3.24.3 Stock-Based Compensation (Details) - Schedule of Grant-Date Fair Value of Stock Options Granted - $ / shares 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Á Á Á Exercise price (in Dollars per share) Á $ 1.35 Á $ 1.35 Risk-free interest rate Á 4.80% Á Á Expected volatility Á 134.50% Á Á Expected dividend yield 0.00% 0.00% 0.00% 0.00% Expected life of options (in years) 5 years 5 years 5 years 5 years Minimum [Member] Á Á Á Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Á Á Á Exercise price (in Dollars per share) Á $ 1 $ 1.35 $ 1 $ 1.35 Risk-free interest rate 5.20% Á 5.20% 4.70% Expected volatility 93.20% Á 93.20% 122.20% Maximum [Member] Á Á Á Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Á Á Á Exercise price (in Dollars per share) Á 1.12 $ 1.84 $ 1.12 $ 1.84 Risk-free interest rate 5.20% Á 5.20% 4.80% Expected volatility 104.60% Á 104.60% 136.90% X - DefinitionAgreed-upon price for the exchange of the underlying asset relating to the share-based payment award. + ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionThe estimated dividend rate (a percentage of the share price) to be paid (expected dividends) to holders of the underlying shares over the option's term. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2) (iii) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedDividendRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItem Type Balance Type: na Period Type: duration X - DefinitionThe estimated measure of the percentage by which a share price is expected to fluctuate during a period. Volatility also may be defined as a probability-weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in the natural logarithms of the stock prices plus dividends, if any, over the period. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItem Type Balance Type: na Period Type: duration X - DefinitionThe risk-free interest rate assumption that is used in valuing an option on its own shares. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI [http://www.xbrl.org/2003/role/disclosureRef](https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItem Type Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <a href=) -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10

-Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionExpected term of award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 66 R54.htm IDEA: XBRL DOCUMENT v3.24.3 Stock-Based Compensation (Details) - Schedule of Exercise Price Range shares in Thousands 9 Months Ended Sep. 30, 2024 \$ / shares shares Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Outstanding Options 12,369 Exercisable Options 8,375 0.00 á€" 1.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Outstanding Options 105 Exercisable Options 1,00 á€" 2.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Outstanding Options 5,348 Exercisable Options 1,794 2.00 á€" 3.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Outstanding Options 5,845 Exercisable Options 5,500 3.00 á€" 6.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Outstanding Options 38 Exercisable Options 38 6.00 á€" 8.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Outstanding Options 683 Exercisable Options 683 8.00 á€" 12.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Outstanding Options 350 Exercisable Options 350 Minimum [Member] | 0.00 á€" 1.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares \$ 0 Minimum [Member] | 1.00 á€" 2.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 1 Minimum [Member] | 2.00 á€" 3.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 2 Minimum [Member] | 3.00 á€" 6.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 3 Minimum [Member] | 6.00 á€" 8.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 6 Minimum [Member] | 8.00 á€" 12.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 8 Maximum [Member] | 0.00 á€" 1.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 1 Maximum [Member] | 1.00 á€" 2.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 2 Maximum [Member] | 2.00 á€" 3.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 3 Maximum [Member] | 3.00 á€" 6.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 6 Maximum [Member] | 6.00 á€" 8.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares 8 Maximum [Member] | 8.00 á€" 12.00 [Member] Á Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items] Á Exercise Price (in Dollars per share) | \$ / shares \$ 12 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe number of shares reserved for issuance pertaining to the outstanding exercisable stock options as of the balance sheet date in the customized range of exercise prices for which the market and performance vesting condition has been satisfied. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (c)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeNumberOfExercisableOptions Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe number of shares reserved for issuance pertaining to the outstanding stock options as of the balance sheet date for all option plans in the customized range of exercise prices. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeNumberOfOutstandingOptions Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe ceiling of a customized range of exercise prices for purposes of disclosing shares potentially issuable under outstanding stock option awards on all stock option plans and other required information pertaining to awards in the customized range. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeUpperRangeLimit Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis=qubt_ZeroPointZeroZeroToOnePointZeroZeroMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis=qubt_OnePointZeroZeroToTwoPointZeroZeroMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis=qubt_TwoPointZeroZeroToThreePointZeroZeroMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis=qubt_ThreePointZeroZeroToSixPointZeroZeroMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis=qubt_SixPointZeroZeroToEightPointZeroZeroMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis=qubt_EightPointZeroZeroToTwelvePointZeroZeroMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 67 R55.htm IDEA: XBRL DOCUMENT v3.24.3 Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock - USD (\$) \$ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock [Line Items] Á Á Á Total stock-based compensation \$ 763 \$ 992 \$ 2,680 \$ 3,110 [1] Research and development [Member] Á Á Á Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock [Line Items] Á Á Á Total stock-based compensation 562 408 1,761 1,358 Selling and marketing [Member] Á Á Á Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock [Line Items] Á Á Á Total stock-based compensation 12 85 123 (351) General and administrative [Member] Á Á Á Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock [Line Items] Á Á Á Total stock-based compensation \$ 189 \$ 499 \$ 796 \$ 2,103 [1] As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statement of cash flows for the nine months ended September 30, 2023. X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_ResearchAndDevelopmentExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_SellingAndMarketingExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_GeneralAndAdministrativeExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 68 R56.htm IDEA: XBRL DOCUMENT v3.24.3 Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted - USD (\$) \$ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2024 Sep. 30, 2023 Sep. 30, 2024 Sep. 30, 2023 Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted [Line Items] Á Á Á Total stock-based compensation \$ 2 \$ 21 \$ 282 [1] Selling and marketing [Member] Á Á Á Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted [Line Items] Á Á Á Total stock-based compensation (107) (174) General and administrative [Member] Á Á Á Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted [Line Items] Á Á Á Total stock-based compensation \$ 2 \$ 107 \$ 21 \$ 456 [1] As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statement of cash flows for the nine months ended September 30, 2023. X - DefinitionStock-based compensation expense for services. + ReferencesNo definition available. + Details Name: qubt_StockbasedCompensationExpenseForServices Namespace Prefix: qubt_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI

<https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference> 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\)\(iii\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference) 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\)\(iv\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference) 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\)\(iv\)\(01\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference) 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\)\(iv\)\(02\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference) 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\)\(iv\)\(03\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference) 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(1\)\(iv\)\(04\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher 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Months Ended Sep. 30, 2024 License Agreement â€” Stevens Institute of Technology [Abstract] A Consideration agreement, description As consideration for the license and other rights granted under the agreement, QPhoton agreed to pay the following: (i) \$35 thousand within 30 days of execution of the agreement, (ii) \$28 thousand within 30 days of each annual anniversary of the effective date, (iii) equity in the Company equivalent to nine percent of the outstanding equity of the Company within 30 days of the execution of the agreement, and (iv) royalties of 3.5% of the net sales price of each licensed product sold or licensed by the company during the quarter then ended, for which it also received payment, concurrent with the delivery of the relevant quarterly report. X - DefinitionConsideration agreement description. + ReferencesNo definition available. + Details Name: qubt ConsiderationAgreementDescription Namespace Prefix: qubt Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap EntertainmentLicenseAgreementForProgramMaterialAbstract Namespace Prefix: us-gaap Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 70 R58.htm IDEA: XBRL DOCUMENT v3.24.3 Restatement of Previously Issued Financial Statements (Details) - Previously Reported [Member] \$ in Thousands 3 Months Ended 9 Months Ended Sep. 30, 2023 USD (\$) Sep. 30, 2023 USD (\$) Error Corrections and Prior Period Adjustments Restatement [Line Items] A Â Net loss \$ 1,400 \$ 1,000 Intangible and goodwill assets 8,600 8,600 Liabilities 500 500 Equity, attributable to parent \$ 9,100 \$ 9,100 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference> 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference> 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-12Reference> 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference> 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference) 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference) 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference) 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7) + Details Name: us-gaap ErrorCorrectionsAndPriorPeriodAdjustmentsRestatementLineItems Namespace Prefix: us-gaap Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount, after impairment and amortization, of goodwill, indefinite-lived, and finite-lived intangible assets. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section 545 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480265/350-10-545-1> + Details Name: us-gaap IntangibleAssetsNetIncludingGoodwill Namespace Prefix: us-gaap Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference) 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.5-02\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference) 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 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-Section 599 -Paragraph 1 -Subparagraph \(SX 210.5-02\(26\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.5-02(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference) 6: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.5-02\(25\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference) 7: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards 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-Subparagraph \(bb\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference) 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.4-08\(g\)\(1\)\(iii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1Reference) 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 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https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference> 16: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.6-04\(14\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-599-1Reference](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-599-1Reference) 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 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https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference) 22: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1BReference](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1BReference) 23: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph 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http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI 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-Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-599-1 + Details Name: us-gaap NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-599-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-599-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-599-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-599-2 + Details Name: us-gaap StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: srt RestatementAxis=srt_ScenarioPreviouslyReported

[illegible]

[illegible]

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M4/_%K;ID^YEW\N:U!))_!4\$H^P (O#0#)FM RP-W>)&V^<('1 M&YF^UH!6)4NVJJG?4!AUCJ3#.5RVSZE-KPVX\$(H. LOOW1L!%K%:B#J]8VS
MN&4:Z_!ILI5O.EP48<(FEW09\$1L)2V59+0U.9IY^50 4_<14ITUNM5&^*! M-/J^>I)WANNM1W(C7X_?(=EF-#1+)=R?
D_A:HL1<:DMK.5E^&HHY&GON43I M^N9R07U70/K61^0-P*_/70!>+YI CM5S-E\$!_!66R^R.CD**_D\$[2G;D M2W71^+/(=G5 NV_^JH(L%.X4N%Q)
<(F1XL%27WE2B(#@)2QRX^*9:CJP4.85_!8ZCG#".JN%]>OLIG<IQ?<LI.CDZ.HIV= BZ&=*7C\$U1E^44Y<<4 M^8KTFX@?D6TV09QE!^>^
(4Y7\$Q).F#NE\$ MIO:PHF01Y5\$WWAOXFK^T@.N@W%\$Y8ULWWY9&=..YAO^�Z^R_-G7_OWV3! M(+^?7IEGI!%M.IF0@>S^<K?
D7ASISHP.M+X^%&HNSK6J3D+&RNYZ^@.P AX^&#DF).3BXD0#^4(P^*O1^>*7!L^#5/G&~*DNW!7 M=Y3.WY/FQ\$6#RSYQ5Q1^2"P_21KXZ:?
%>NFSG +76^1ICQWIKJTTO_8 M+UTY F3B)C1QY4.Z4EL:602LET B4G);DJ.GR60D=V:IIY?LEOOVFM!>:-L M^#AD/=&7D:~Y>W^?
Y4=(=XQU)CUC3T8OGYS.Y3^/_Z.V.7TJILGUOM_P1 MIY8P^IZ@WI?6IOX+!>4_SJ_P!02P.\$% @ K8!F60:U^!1N! BPH M^!D
!X:"!W)K&ULG5::MLX\$W75PS41=\$ M:JR+&BOHI6UD6~3-0@:JEL@RZU06 M@!#WXT">_4N9G:N3BYFHM\$%K_!.@FK*DLD?EUB(I=P-W-
W\$51D)M9D8+&8U MV^21:2Z3M)HT~*DO.1*<5&I0?7#2#0!Y^ MZQM^6&"J#0#COR>VPJ(P0\$3C>X?
IID<:QWUIA_1:BWX6T45J4G3.O^G5_K/G+@Z0<0@IAI^R M:~@R+^*99HN9%N09C>A&<~*M=Y\$CEA^PY/X\$6I.Z.CB1^M^I^>+E=*22N7?
8D:U^Q5_-4U6S M%..Y:~FX253/ 56 M97#-BT9CUHJ(W#6U3IUP^ISQ^6HJ^!Y=4&M^D\$4^@534J@>Z:E!K(6#0Q06 M/8>LXU#L JS:-
~^81*3>DDR5^!I8FOGEIJ:N)N\$ZCE2\$FC5I)/U/!\$2">!)#(1 M9.3#F&#ZTYVGDJ^<K):F&B:(K0(N2@RE K@>ODG^)(AP+2^W,>>X/J> <\\
MWVARKK\$2=^T^A_L_448C 30K=M&7T&C:(Y2U^;59+W<:34YVO&SJ?HUL4E\$ M9R8P#KQ1DD R?PX@GCHA?
8PNNACMK@B:WYOO^71B5!4#DM.&FU^8HOC\$S:!)N0W\$S7L^&BTKS MI8EZ<~SK E/4CI^GQOVJ]=*VGU@/773F-N?..IQ?6X OI!UJ9NNA7E2/(149
M39KNIOU?T(WV^VFROQ45M7Z9AIS.@15B9?JY?SPWKJ4H?I@X#+=5=2H^4E!+ MP_F4)%P#9^6I44<#<325
@LRZ0AS?)^ZX_#^!7Q@.3DID4AUX8A#~R)F:- MID91 K^G3T+G2VV4^0A^>^B/(:#~*CR=FE^0A!(\$W#^SG&IT2RHB^F%&_I8!
MR\$;3DZ:DXV3J+^/X^Y^YH54 M-6~2^L^*Y KIWK5NKS.)B]J9>\$(P@2.FUL M(D)B>:P9!IG/!+H^~ 89I(A+4^G^YK=^#B!@MB_!/:?P2:9I9G^&27>1>I>W
MS)=(40+>^!K0#&6KIW@/387/>^!T6D1M^M^Z6I^P:F_Z-?>B_4\$1L#!0 M (^V9EE.^YEL^P0^*) 9 > &PO=VIR:W-H965T@~SWU^F/RR#0104-
MTQ>R!8\$C2ZD:9K^K5H%N%#2!34H&\$X\$AIG^VIV<:8I-90(SO!:)P)TBNFL: MIC:7P.5ZZD7>SG?KRIC#<%LTK(5/(&YK;U3V OV*~7=@-
~"U%\$3!7.^R8!IN)/I2EZ::>IE^2EBRCIM(N^X9MODX@H7DVGW)NO=XGP^='(>VA7216U;_U_~T:"^@3=I^R8:AU1QN79 S1E?G
MO@.ZD4W+Q(943+O^4G<+6JQ(FR:H^L^L^Y.D/4:-\1)324IC3NHSR^!4# MS0^I?2
1^WD&QM43.1^>^JDUN6%>:Q\$ 4J2>5%T3?2A29EZK^9.SX^XP^Y MVOG_OPP^2_ %3@=F#P6Q6"@ //-.OZ!==(2F1^1F?*CB+~#ZD_HADYQV9^X!..
MR\$^CD1N(%\$)\GRIA:X1L13V8":>~>DC8HN51771\$Q#~.R3-(PT9QMC%I M-\$3#..I^CU!40C^YVKA07A=X^F_-+69FMR2B?AI""^3).&8\$^R=&^E?<
I99 MI-S1M^@41K&+&NOG^<_<8I1L6.<^<VF2O1A+ _R7?#?#=\$Q.5.UH7S6C?UTU M^SK3^7BY.>^>6IO>L6(Y^7R6!Y1Q.P0!GKX?7L6^<K{J0I!I3>-
I2SQ- MAJ)P&R!P8M+TARK80Y4^EPC@Q16LIMN\$N2:RX&CP=E: IYN65I50M-."PO+>C(M43^?P_T^2:=P&PO=VIR:W-H965T>??P>8ID<:K3YLGFB
00A2KM+R)JMLHLEA: WNI^*2 M9S:~%(&+8--O(5@9%YH.%*<7=IC JA^S#^=2/+O -IG-R0U\$VDEMKA^~JU:&K:B^B63!996ZAC:F:AHG=IUW?
^WN^W M BM3MIU>G9^WUDS.>C^9.PZBAP1O<@N^F&@I1^0?S^+X?2_-V21=XW^1% ^~U MLY:UL^BOU^LRHW6PCD/(<^-J1= TIB>+I P<7J15I7_8:-I)
(2TMJ2+0S S M^&39M.+ED>@~"W3\$1!"@IIV8AS_!*(I#&?&KT^XIPD9S761\$!_Y&31-F5% MAFU!EDU!^?IE01DGN^H4:X7>AH1+>^> QF<)_!%
MEY1:>@SS^Z.CYAIUD18=N#KKOI!\$8L^.[#XTUNIYAMNR:FI M8F?*=6UYW%I?IKSUA,4:C= _IY@>C%YG< O7O(:#4&!)1/@7&'3&DPFW<6HR-
2^G!TG.7I2&IJQ=I-B-H)/CM=N589 MR(+SI)P.GIOT^2!C^A&(AC8HS>1QVDAY#=#WK1^#BD:5W4RF0!E?A-
G^TAV!#8=V:T9>94U3AQN#=.5KWUH35U+2\$2FXN<M>ZC:T:H^V.9S_U!+ P04 _" M@&99W;I&B&.(# V^O^0^'AL
M+W=O!K:=>Q^BR(3H6^TVYW&!=^ MZF@^#7,+Y^:RBNI<6^!544A!L-*K=14FTGWB0ZXWGB7@^+<4:~!%_+!>6 M1G&#DIL^M9-
&/75+>1.I.KFX&~!..I^X=0=IX\$R6QGSFP2M^G69S^K/L_)(M>CWC+2K^0\$3CGQUFU(1DQV^OU=)RUR60!GY9IDKG2\$QO^!#FN1^7@IG^< MAKM
L^!:=V:V(S+^N=17.FIH74I5MV>W^@<X^PV^>.>0!MYUH_R MKR!IB/K\$F^Y.M^8TI(=7@3>2DYD-Y1)96J2MT9H<2K2^K\$^3D^9TIBJ="= M3V-
A&P49SNHFQHJ_0-4:Z-IAL^O^H<ZV_I8Z+5<SOWW&[25L!+^~^AUIV MM)OV6_IJ3:Z!@>?IWES_NEXZ:TD8?Y^M@&KGP:C&KERI/5^QYI1#."CII7+K.5-
IC#N)J7UF\$>ZEE415U(K O M+UOGWK\$IG6C.U1RK>%)>T0? L#EAR+5>9D9GDL0^GI:JOYJK0+~3I&BJ M0+!I@/O%":^~DF(IE?22#~#G^6LM_1R5-
_L0V>4 M5 536 HE=(80;J Q^E^M^E^UG!F6124SFAW@6J)B:-N8Y&(XG3> 664M M.Y:AJ^@U)FJA!#_V9;2P.\$K6!)_!BV=^(+9EW6&_2^2 M
MUM ***H.MCU2^3P6Q1Q^X^T^M^QO:EL\$J2F=1!%6Y#.D4:L^M^V7=IC\$ MDA&UDY2:=>3G-NGH!UW%46CQ3%K!KA%=%YUW!@!@3UO2G7BH^ M
/%^2+KPXU^S2C^QP5U6H%6^&M! *JOM6:V^2FXKN_!5 /ZC^>V+74CLBO MR+5I.2(9V/I6K@?>E.^F7I!IVSH;NC!BT:T/K^&+!<(#F5VG^U!+ P04
M^" M@&99#4^ON H36I6P!G^NM)6V<@<32 RJ=< #XL%):AMKCAU MU9WY15PG65@>I1+I.O<J M0\$E05DKGS%~HUXSI+*T
N4BB."P2.2V1^K=<86>CY5115T% M^K69>3W0>=>6KS/K^H+YM&IK^7+I4BPT14+DO(C/L:55#0Q32X&+K!M^_I.Q8W:FX)\$2MVIX\$ZIT(G"
4FUC\$P&AIP\$H5P1^3C9VIM5LZX.IB2VZ MDY>8F:P4HEO/+79S!MJD_.*E<+>JLU!P:~5^BA^F>L^ES3P<>~*6Q^F_M!"GLA!98W...X!Q^
(@@/!1I:O>I%)9J2R:3I7/@:9Q.8FE=4^3>^X=IJE M:36IY852VILNF4PX\$ _!LY@+>CD:~+YCL4^3G0:6I6^90+=P7=I1TO1M9W(C MLT.O).IIG_B
I+6^HR>I%Y\$!PEF7Q /_0A^J/L:Y^:IA2127_R_#WIA8 M32SDQSI+>~>Z/K.FXED16(SC^K^HY_:I256I4OCV@=I#1^IOBGR^I#--2
M(*@5?^ZML4RF7^YAH57.C5\$Z^Y^4)0L+MG4?#R^O1IW&3NXI7YC=QG^I0.0.6XI425-Q.%HZYNQ!4F3=#S.I?H6I#3(1235^F"=B6R M(OCIT3^D.?
+4#71GKY2D5E0^YVLY(=9^E D^"A^#HYI FE_!%V:1.2013R? MZHYR^RIU3OHV^X&B.0>P>:~> Y9-Q<=>MIZY&@&WJ^@7T)=BIZASUNNI=
MAOCIA.L^U:J!G&A=^XGI+JWVC^IYM^ P5!PEY/3H0>ZIE=U8\$51I8A8>H XH MU32C^H_:=>YE:(IU@IN@:_G.2!4\$!#10 (*V 9EDC/KVU (("<& M
9 >&PO=VIR:W-H965T@-HH%=E@HJIC;&Y\$?2U_ \$&Z9;D=!)RNL:F:(5&M?YPI9XD!9ZD=I MT/SH4W&3G?7\$U&LC I^SA7H(LL8^HIAJG77+
G/4&@N12AMD! 56\$^88 M&O_#G2?Q32TOR2@<7IW2 @_>W/8KG;J9<~JOP&PU7(I^D3Q/FFIAT5I8+~IDN_!^I>V@ M^\$50=4IPM>M^VXZO_5^%?
IINM5^T^X<^!5DZAQGLFTRU^F+<>O1^VA4C^A- MWKX_>I|&[S\$H M<I^?>.)MHN^5(\$N8)IIA031L7PFC#1,+^&IC>DXS^I^YM
M\$(R!%C:QJR:DOI^#8:.MOQ^ICGS^V:~L5@MD157PTN""^(%Z2:>+&J88 M6E#%7^DBL<^C^:W-LR%<:UTP03:1582K^E&~YA:&UL
MK5AM:JLY\$ZN7W%PTR(!%QODM^0-RE70>I>#>^L 3#L R1MAI!)\$@J:2^K M=T?)LMS96M86B2R1Q#Q>9I!L.KI4)"X>+P:8-
QDRU7FCK&T_U6_OYI^3CRG6VQJIV5^~MXJ3)1@N2+BI&E M70SB_1P:IFV?210)(W6Z&S^M:K31N:RD19EKB:9ZNGI7(OD_G2&<:7PIA2XUHJ9=IW?
LKNJN!T^W61W^CXSM^3CGZO^XJAIN&S^INL> ME W69:/>G2.Q9A6-0>Q@IKX^PEX3G33 M<I36VW17?%8>%R+&W(LWO&A: MJ=3LZY
XS#EBI5/KU!\$KA.I5I98:PL+4^U>:1^G^_&@<_."X@IH7=URV MRPC^68G^HE^I3-40^<~<S9?#&99(I#FN9)IQP#!(T1&M2L1SR:~\$A19RZG."
MRAC!8NH.YV@?9BQG)2DKRM90K^R0:QI< 3N^3I&T7P3K^2I-S MIF=D.O^~+AJ^\$GAU/PA!2OX1F^SC!").R?>CQP^1W:GVQ.IXPZ1^&Q)FI!V<
MT8^7)SEBJX)V3JH(XSZ6\$!1!1_JB^7/7I13P^GRIX>W+!)/PE>65 M6M3^5T@!~!^U^#W^I^26K5^L4B^!)
O=LOHD#RT3J:5>@T<\$2AM.%7GO:~&XYH^ M+^CT><~SY&+?NLG4_>F"?LP5DRXIDEX"49N^TC/+Q^<=M#SR_WRD2L,NC^
M&M^X^&V^R!%6IUP-.G.E^+ I+&D M1B13Q/4-3K75L10/RIZ9K^@YXXD^G^K^U^SWZJEP^VP1-D5UIJIM5G3&UBN M^:XZZK7XW<2IRZJ6I-
LD/VSF+DF8>N:N#Y56FE4(TVUK^58:BFS\$H>Q>K MV^L^& K@QB!U B&G&A^T<3WJSJNS:C7CT>^P^!C:I>IWOD!>C^X\$G9'
M8FJ\$14<7CL4I#IDYO!<5D/@-0OW_~J@1\$!&Q@^JR(\$VA(3>1.QBG 0^0W^ MD7Z^<(64BG/LL8LP_BIA8A\$B)O7BJE!+MFV_%N@G_P
8V!>D462EODDY0IXU!G3A_B_04@L-L^LO MZZIA:0=8QV@<^6.O.#>#>L>=&=~W8B5%UI& M6U0ZRH 331^?31^A_!~NS:H5&T4/K/5^'(6U)I^
RRAY&L8UW:~@X0807 MMIB.ZQZN:~X1U@A:~A~IS^I^Z^7&QR_QSU LU/JPAXN^Y>W@9I+<C>=D Tl:~+OR~19>15VL\$XSG84IRD)3 M^=DV^I^W
6:R8#6IEN^W5@C127LOD#^52^>IXWNK9WA!_6^@>@VWV:~6^U- M^+!^I(%DG<=I/(POXO!>RZ5)INJ.ZM^7^G:~G:~UPN31?^\$A:5:GK8W:~VWZD
MN^S^YEQQ^@O^R:7^68UYP4M4<I!IE_~6=6:FBQ-B=U7^L!YO^66/B M468_~GTJ>&Z.LF@<+^2V#ZS9J!+@B@!%1M7E@):D^%IOH83JR^ M4.9\$"
IMV^Z(%KU1E=&P^)*NB(&+S%>1^MW0!YVGA=UDRBXRT:(D&I@#+=5 >M^CUS6Y:4%L DYO6P^<^2^>BIBS IOB#PD/NC9&1L^YHYE;H#? /QC0/@5
M0_@FI%A T@M[44]IP,5\$D6@>B^0!+LUFOF8.VT:~V2.G/N<TKHMU3C5/O M494 Q=:(98!>^D^A^6HJM^:H^4Z^0&16@N3I\$N^NK^+T^2E"

7X#X#G#SOR627#8T@TW+PH,/>|- KO*1AAJX M-^M1\$3G%5B^X^>=UX=2P|=-*RCDGVU'4\$<0)NZ.88G,A2Y+ TM'5U1+@8@A-I
M_YTWP3|T.3@d63P0V8&[8>MNV,<>7\$.BY*+VM^4*\$.CRK1^C?/&Z,MZL6 MU*ZIR ILK=VC<1)JTD4H>SU!|J20)THDM S/,<"
(E*\$'61..VR MLN:26GYS16TC/,(8>PMWN^ 8MVV+>[-J|I>3UHM)OQ=\$908OF)@!/?*RHJ@*8 MZBR!-=5D3T^)^&1Z.>?<
#R>TGN3>J5D|>MY&FOY.LD|8HJU ^2U%RU-*&J M2VQ..M|3<>Z%|.1'DGN3>J7D62MYUBOYO?Z(H6RC#|FD MBN1=Z _%?=U1_@
ML>G.R18W#;TW9&V;N|_@.90 M2P.\$< @ K8|F6=K8^U02 P CPH ID !X:|TW:WK&ULM591|JHP:\$XKIVR:6FEK0@*A1="IA4VKM\$JHJ-U#M0>3'
MQ:GM0/O09SN0PD3>=>IX(+9SWW??2?SSJ==="WJL%HH:'G'\$UI;9+|J|7Z4+ MS(DS\$40DYLU,R|)QH,Y5\$7RTEDLR|N|_@<3:PSEMGM MPU9@<
<[BEN]:|8S|AC(5XMY+K.I.%UA%R#*#5EH*8QPT|RAE,CH>-J|>Y=," M=|=-,|N|N|>I,E"@"<O:+9GHQ|&\$XIR'&"J:OQ?H':@+J6+Y4..7^85W:=D(/
MTD)ID6 _1D%>?DDCYM\$|_3ST@W #""OP'M%P#1!A"Y0\$ME+JP1T2|3|2|& M:..T-FOVXW#BTB89R^QDG6IJWU..T,J%\$S3F9J*@FO*YS 6C*84%1R-
M4!/*U#%|@90)"(X^0=1:1Q:N|NG%R43L(7G/3>2C"14"-9YCMXWTCN(= M:E5?A(V\$SUR>0!1|AC
(VS5ZALWP\$&W&WG+PJS%..5^4QNEI#*PZ^UH7^3F1|B6A7B6@WL2=# MHA: #P5=\$89<*Z|A4IC9@:0%|H@#&8%SU1=%DKJV%':ZK-
*PBBPOJZ_V@VP MOJW|>G05-IJ\$J|OR6L0! S(\$JAKE58G|>57AHQ\$S4IC"N%|>O9)3R#=# - M=5+C PG=7G2H|-L'9>=2FFW4>D(I=%F"SOP2|J:44?
U4|D|XZ.XT.5C<|J MMSOT1:3^HK3YGR|HL2|JXPZ7L%N-&|N^|SMA=MKXJV|U+6.1|S _% M9'N):
7/=V+0+^4JRH:U1.GP2IQ(Q|8,+4A=JRL&:K4A1YV 3- M|:TS^MSI50MNC<=4(*W&JVSEV/X3^>EZW:%9%\$SRA4PG|EH<- (UYU&6W4Y
MT6+I&HBIT.8N.""=(PHK8%Y/Q-:"R260=6#G|4 \$L\$!1!0 (*V 9EDF M^D20D5P4_47 9+&PO=VJR:W-H965T(HEO!)2VPXP9\$V2A+M>W 2C'-
I.O.9EMWS^8SEJ,\$9N>=:(Y&F^*= 7)&J| MRX\$SV L^T)=8^H UGUEYWP(UD1_6SS\$^JE BFD,4)8A3M:7|RMG<2N^XRD|K M_G3)AP|Q(7*
V_U.OOT>7 5A21A(1206#XMR4W)\$D4\$OCQ5PDZJ+ZI# ^? MJ^A+3P\$IX %N6^5QK)^('P'J'(K'&>R.JL|QLI QH|O) E0O|NU+7J P M%Y*E13%XD-
^L^Q| EHDH, &1<+&P MKTM|:1#T=6E4&HPT645Y-34++&|QMD.<4:-I|JZNM@1&J:6XDAQ^I6 G MYY|@M7|@QJ-
X>B2D1DLCU6..4%0%T1BEHAWZIRM8 =>4(06RNE32ZQ7DCP M>H7%#1'.(C|22Y)5.#= UR|MWZ#6RD% R@6B&OF14BK,#P1|Q MRP4
@?|U|7UF28A4^6N%9537151N2U0>^L@R&0MTFT4D,MC?=MM,NPMR^5 M9G>?YFNW\$W!%-A?(L|^0:
|N^P9^> N>:>*QJ_1 7E+V^|E@R06G>OQO|UER> M\$HXEXU,3LX6M:|95E7D|C@DEP.HO8+P+1G,WIQR ONI*:VG!+LI)=CR1& U M OR*
+|+76 Z|:!*?V9: MU3FVG9|@!P9FT|VKO'L^4|=-:"OOS?EN MRK(|VAEY=L.#14'M:U)0^WN61?..OKG?.U(ZK%(Z|S3Z0(28HA7A%(K9%0I9
MMB5HF4#@FG_E1&?>@#171+|I)2U\$J_8EX6R+3P^YU4+3U.(SF+|I|: M^#FIATN#AX\$?-A|H8S2:..Y|!
MAQKJ5IAFCRC+V^51N|7KFY_:P4#0:5E>RW>F3B=&W*B6?2|X|B:8=<Q M0VO1^5I+|3B^D_LP&LL^&_MP>|:O<+':@QY-A|IQ?|/^_H+^O/L51Z|Q-
M|C433|_SUT*4=S\$E\$1-1-5+?;AS?#7+=H/5^AZI9,2|/-"5>N8J2@^_<ZL MO2?%321*-0F=:5FN_J|VU.&%UP)DTFC&J>UV3BA3|4F7"?F!_D8GSVB|H
MR8+;CP6W%PO=<GQ>Q8^3AF 6CYC#+2 ASH^Z|I+3|QZV4+=U^@IHS:BVD\$S\$G1L|H@1<6TA^AI M^5R^F#|
"MF/S.X@#O6_RHL%56(18S6"=I|1=4K%\$A/SUL\$ +B74<|6|7P| MSV31|U2:GYI|:6#?FU.UTX|OEFMO<:Y#?2N=&"6:K3.YARoS R#/^XN|'
MRM9|_5^BFCQ383|@:PK\$O1G">|&+&6|Q(MM\$CQ@&PO M=VJR:W-H965T_V'RG|BF450M|R0+Y\$)7WD?B"W6S/64_M2|@T+<1* C0T?
W<RVQJ|U)=F=|_12G MI|F=U14|@P0DM\$(UW+IR+V75PUQW<?>WXT|I|J>TH?2)1.M.K<=<2+(M(\$*>5C|TQD.D62Y_C:O|JUN3Z5X#I0_ZJ-
E|:<8PY+FMV15&SGULI^*..OQ ME8D/=AWM:~%"^A&:_HGTKZU@HJ:B@>:LL3Y"3HGGB:ZTCCA0D1Z_@M0K> MJ4+PA(+?
*OCW2H%8&G&C|J|6K3|>:VVG51%G@Q8W2|F?6-#6HO5|K2W^1 M0B7?2C#YED@IL2A^YN(|RCDJ|@:SES7,90-46,T. 12 PR?COZ U:R?Q,JPP0 M7:..
I|V0>OHL)=E+G|C@R0.*OU9DAS,H|S^"URDI-B@>+V6 M68*N'D>1^2K5?:(C:E1|>S?|M|34B?H?:"SM5>=>UD|JZ8|J|PFK?1^ M"
|E"*Y22#7ZT:~^#=#?EA|NW.P=W\$SM#0)74%X@W_D#>8X7,ZS?+ZZKS/G MYW:/?WCWGCA+N?^FN<_O?O?L^G+|,|DE>BL@Y _JLJJ"|5:5B3P
W4K%_R@O| M3|IG^ZBS?31H^QUF#*N< 7(^<3TP.O.(EZ:@R9AD4E8; C6B|_XB|XEL+>: MLB=UYEQH-#TJ#8T?-21/SFLN= " M8V?JZ8O,I+
|_F|C^U+U+=M(<#K\$#AI>EG\$A>6&H+TP3+LP3|YC9E#+)| M6&02\$AN^|8+L^H^28|Y\$M,R|J<+>+W|_B|+G9COC^OIWNH\$
VS7YJDIFF145ILB:M/ MDO<8)>^5EZV@*9":9(6&:7%IFC|4#|1^1:N#WV|_6)+|I_0*='I6DQ5Y%BO62(6A>U|_<
|_5@YL4|<N:PO52&:QD*WYK4GK^JFW.GZM7NY=#7K MD6IGUAVS1WS3|'W|:S/D/2J#M=S^N0CE25G37FEP@I9U_>R>"D'S>K@%G)3 M
O+|JFLH0M|U0>?D7?P4\$&L#!0 (*V 9EF&PO=VJR:W-H965TH4 MP)|MQH6>JDO^8GKZCB%C.I#F8/-TN|FIPJE:NSA701#3N|MX7NAFE DG
MFI|KURF|RPN|:5\$UD&55,^IR.W5|YWGAAJ|28Q2<|)+3%>R^N<^O%<I< M1B5A&0C-I^"EE|GS#<^9^5;N..I4:WOL0-92^EHYU<@E/LT3
(396@N|C M#>? N55^CC^U|_XMG|C|W|Z17EX,R':CB7 _=+3#IUCAR2P)(6W-S(S7>H M#S2R>K^DNOPEFVKOR-(7&@CL|H8^3(EJB?
=UH%H&03|_H@-@A|J|I23FG MAD83)3=\$V=VH9?>?E44MKA&/"?I5:H_ M0SL378189D#NZ|8T.9B#H8SKSV2/ M,\$N4EEH^A|I
<0VZ|@9N7_0_*ME@A+PQN9^|_D|N\$PDD_ |N|B-APIL^D0L M9QC&:/|C|W>?%X:CO? 1.&)^F^&= T:V|9U3%(*<SD1:|UUM@<Z8AB,6JG3|3
MX(XNLK%J\$46C':1'3=@Q|U@E)0L6(+#E5(NOP>Q_ K^|Q|^MY+^?Z3|I0 M7M^JQG/L_E3\$8!_#FY1^77O|VN6|IAZ,SE:I=3 4)+>[-L/YT3)|_O|'ZZ
MU+&MBQ(&@U&PO=VJR:W-H965TQFMB9;4BW MOWZV\$S)*TXRUQ|_# N_<|N^&X_."17N1 \$CTD^54#\$U\$RKOQVRY^C/BG.5 MU4K6^0<<&Q
66|JCM.S,TRH0\$5,V@T|/FPM4T+AAB,OSC+2XTA M9<70ZEC\$A5NR2J1>L|C|CE99^9 MW%4N^RQ@PMO)|):T|J4
Q+O\$|E+2L^OY6"/3|B|3)_J^AM>ST+16LA65:| M5009H>47/U0Z| 43S/ K0#N|J|I#_."K-ZA^KH5H^NH|I|^(<)>A6@9I00
M03>#AUCB8,|9@:BV5FQZ8H(+H7)J_AJ+>9=<|1?%D|S59EBNR^%(-I^I\$^8 MQN@38W^|TA2=AB Q2<49>H NYB\$Z^0%1)XA01^5A:Z%Q<"6*~@Q-
QD>5RW^|MTGW&F8(N&96|0%_0|R_#10Q^UKPMD|_UL#=:C|V6PGGD|C\$WF?_2-M.L0S.M1SN.3UWF#M<~#B|2TP1_I\$57WR2|DONT_?
1PLAN7L?C3=FY^Z MVTRMG|B^R'\$S0TN|H0+X|JS@|9M.S_G8=&C^ N/238|)MGL2&2#KM:W:W MC3T898Q+|AN:&@\$/JM@)0&RIWH?
Z\$FIS^9H.NZ3R&6I= C:Q:4SL#>|9WB M3?C4Q06K7N>T:FW_@MCSO|2:=A>|STIV5: M|Y+^:~+N,5|1^E
*2^7:~|J0\$?R<2DGDND6FT^M85F7;5|ZP?7|F|R9C< M3K2#NGL_@|02P \$% @ K8|F67|P|Y+^| P|A|_ID !X:|TW:WK M&ULO5CO:YLZ%|U7+<
XT)=|KP08^Z4LB=:G>5FF;ZB\$F|_DSO@P.W^2I@9C0-NK_ ^V81^|(2NDM40 <_I.Q>=>V#2W GDT^NH8R*% #5.3B@COB6P\$P?
W2)>R9_Q.#Z|C|>5H1|!"#4\$ M59=|F\$::B3%XV<M:5SZL3#<^T?T|OB53%+^F#.TN|)+#<3*10#^N23>4M MVWV|B|?XT4L%>4GVE6QCH6BK9
LJY(5@RS)|U?ZJO+<C^|Q)E4#~& M M\$MRRT^VSLJPK^NELPMD.<1VMT1-J4V9K:DG.#DB:I>@.O.T\$(MH7BK MD^769LFZO@6TBIA|A)
MAHZ1SM?7Q15Z|_HM>H62^W9|U0Z&B|25Y:D|L1%#2=(2Y& MQ^>3%J_L^T%6.RW2WG6XK06K12T*"?<4W2>J12/CPH|74QO(|IU>+^G
M|_JGT\$OYAOAT@JFEM|JH_?@_6|5|>:3VTZ>%G^6.EZMC#N\$G|GO/EU|H3CE_ M2|U)4Y?Q7N840FC6|W|I#
(_&8SRQIP|+>2J|Q=&K.7J#^""C|MMJ|_6(LAE M|OJEM^)|46YQ#E|M\$)V(A1 MP|IW:LG:|2>DK|Q^GC8^7R|:).SE^T?RH:O)|Z^ZAD+92X>FL,I@6C
M|L\$46EN(OBG@%I8^V\$A7_76J5|_?C|_B0?7<#5@^3P#W::T^M M7DVG@&:PVX MQP|XQ|Z5O.11B>Z VDL0W\$B&VH4 |_:|5>+&1|ID2-PR_9A|
<1NB3H\$^4 MKY-&PO=VJR:W-H965T MZ^E2L+ 3BUHIRZ@>=;%HX@|12D5SVNQ|L@J|^|X|I:#EL#0O2(C:D^P5D^8"TS":\$5FTYIBA9.IX|LD
M3+1V.PU.&Z06V1(FWN)_?V4J:U=:JC":\$7F%="EE^ DPBQ67SA-X12=>H# MA0F5M^@CFNDO^*UU(^&BZU^50DMR+A3YB^T:~?RD/RT|O)A-
D6G|Y2H|!& MJC->2FTTJ2|2P\$9:=U^755PP2MP.R.4>A|O(\$37|2P\$KDDV|Y|I@:IEM^Y^<N MZC(UMO|_6+76+WP-
YXT%^DYETKH#_176IK5+^WV."R\$+O(^OH_J^"6(- M3O+^G1|YGH^*)_7I0C:H1=KDG|Y|6@4P%FK2|LA50F%#.FDU#O4\$+I-NY^U= _B#GIQ|
/3>7TD>+|I|Q|_ MCIK_@_O@7N#Q@>=:PD>=>#1(2^X#3S: >7^K@&WFEF|C<@>P=MX\$^M^_?|H|W6A|)/FC_IYW@|IQGHS7Z|0+3A#_P|XWZ|O|_I?
R2J|L\$?=\$M-SA6D: M^|O:1G&O<_&7ZD|WA:U^"U%Y&YMIN8@|PV+>66\$24\$A|G>?>Z(ZG|O=100 M|JZYT|KOC:9Z?4^|_@GRY5|=LV4W)|3D^U|+
P04 " "M@&99#Z3(CM|D)"_ _|P_O^_AL+W=OW.3:6\$OLS":|=|S=M+O&JP:L)?&M/G_?|=|SI2|:"GFK<@!-|LN^JXF3:UV-
75>E.914G8D^)|ZLA^RIQJU@KL?T\$3Q#H|Y>?0ME2|LFVYPO2GM=#B;EX@Y+QYDQOYSSL5"G MG^~W|AQ(7R"\$+2\$X+D>P|80/M?#L"78T-
TF=INXA&H:1U)LB31H5#&+FWW+&MGPQ:NKD6DL9PN M=G|7^0_*OBEYFI|NP(E?OQ|O_Q|I|V7Y|L>0EQ>8O
P+&F+W+N\$Q13@!%\$T9M6T5|G\$^*A|BD9E9|Z>_<C\$Y|(W>PGN QV|I+^FVHT^15-1<-S796;M|?7KL
M^4ZG9|CIEF|VR65:185^6^"KKRSTRQPD+T@#P M^2^6\$WFEV.@VYFQ|_4\$|L#!0 (*V 9EF:TD8UF 0_"D9 9>&PO M=VJR:W-H965TQ9A^20#?
>SCWSCUP^ZM?O% MEP "O<11PL?&4HCTPC2YOX28|_0B(65 6\$R/V:O4P8DR|R,26Y9DQ M^1-C.LJOS=AD1#_1A0G&.)9^|V>@4178|
VWB|N5|7@IUP9R,4O(4^56#|_O|_BY2%|I\$_.4QK|)_O|L#_P6 M^GD0DM+V^UR@^3R>_ T7K(M8RD|IQ0>_B63*(PV3SGIP4C@ERS+&SW^1 M@+<
<2|Z>|1*=(M^R8G @F7A%) G3S.PM3N48^?P&O<*(?T)G:"Y)|@B0^2|JH2^HA.O.S_>V0=|KK7^JTS?|V%3XL/8D(KFP9@3/I^R_L|2|KJ|@BLT85>
MV86>#GWRCOH2(9|RH88J|K0|50^6CK0\$5^1^50^HU<1S;PRU^7^H H40&LSO1T^*|@O|P|PH_>U=1HT@|V^*#V\$5:LW1COQ?
EWJ<7H:76HSCU2ZRG|8>O|Q MFI\$D%G^F#?25NP\$C=US|7B5|(^>|)=H37KKYR-I9U0G^K#='G.D|K=J+R3K;>
M|TMSOZN+=YVSD6,VQ|3%)R9^5OK|@X0IQZGKQ^G^7R.71D96^IDYGOAUD|J M4RM^+<:|O|@160.K=66\$|4Z>.*+.\$|QI?
T4A@E7A@GK#=:Q^*6&|L:SI.G.ZND>VIV^K=M^7K|J>TG:&^4YU|ZG^O@G#|5=:34 2P&D+>N|J>=>IHS|F= SL=<@C MYW(5LD1L|J7+J^7O)?<
Y|K=9A6|_1^|@|E|N^*OQ4\$5.M|Y|L=>OLRV|SWS MK?16>1G^&2|Y|E "8^T^+R@5R^J2N@OYV_5|+ P04 " "M@&99D8#& MX6P# "Z#&O ^AL+W=O,
|SQ<^ MD\$NS 4W697X %M03^5&Z|J|LE(4P2SI" _=IY|= _^X\$1V|&?)SD61L9 M^SO.YO.GIG:|0P14\$B5^8^UWQ^N@5(327AVP1UVCF-1+SI^VM-:~
|+^" M>T|_IGG^UT|LH SVN^&S_1 8VAN8F7:RCP@MF _Y<@I^EOM6^GXO=W7ZVAP&:0X#
M&R|!">=>G|INGOSNIA^Z_OE\$3\$TR&R8O|R+=&*\$T>_U+&\$9SDUU_R|M| M^1\$T* =AW200:I(5CT1.S=A*@-EJC^N5^P14<*9R>3WDO
X7V7|FYCYWN^I#O< MHY\$GS\$'\$?6Y_7F>>S3R1.Y%R|VXQ|T?>2|ZW(\$?+=A^T_DCEON
M>)>3|X>8F@IDM^RVV<2G&O.O|WX|_SM61B>:;&796EF.6GDS^>|0*>_04TV>_5+^|UBQM|!+^6^VYL\$= PE):978)\$5>Y+J;|M(RRY|OOCKW|=76*
<::KG(X<*?|3|)H<^<6|THUG|U>+I72Y|=FC.P^IYY MI:_\VCT|I3_3LL#H1\$S:7^N|VH5.HZH-RW5&M|&?>5?Y&J:J^ZX&#& MZ|M|SM5SOQQ?
V|>5Y#|02P.\$< @ K8|F62A_9<@ULK59M3|LP\$XK|P0|(WFKOV#M9&@ MZ30D\$|B.16':|J>Y-A9|G-EN^|_MA2A2%|^N^WOL>=>Y^ZY.JG773#^*)J?
M^4J9FHN>E4A9G-FV&?>8\$=#B|>:JRX3QC\$BUX5-:%|Q):\$19:GN.\$|@9H:D5 M=|W9+0^L|_93FN.M|S^+L^*+S|EBY|E6B|=W2:2^U@AIV^3^&
(KXZY6IG MURPOS3_7E? <=>SSMW|O%#MC<#B@NOL@M9.38HJY|<4W MK|1T-^8I<+^|P^R=2P8SX1D6056\$60T+_J4Y6^8^|J|@7@50|O ^
%6P|_M?2#W|="N_U|70J@%N|E|X-B|2C=CE:<%6RLV039V-4B5+YK|AE^KKY2 MA9A38&<2)IXO150@<4<1B@1-0=6412Q^8|&YD@APN|
|U=8WO_42 M8Y_-EC@BI(13:EDBO 8|H<1^|X1?>3L(A%BWPG4_@.5Z|9|^M_G^_2<I:O
^V M.:ORZDWS^YV_CVZ5O9=G7\$S_1D%Q=:^>J^TW|F|VK| 3 M_UO_28L=51Y^:TPH|2W.^YTE28|R2+WI-L|SYD:R5LUR5L|V|^@TOD4| :
M@RH>ZJ|MV&V+RW\$05O3F8P:L\$|U|_F^H^Y%&^EB^D8LUDNO:4C-J6^<M^Y:=E89P6N&H^UC%UC-
/B+42G:7GF3_~13,PP)\$+*2|4^K>>M3DPE1O)"C,1C)A4|X59 M)FK&1^X-U/<|8)EHOW44VOX|U|+ P04 " "M@&99=U_X(SO_IX9P M&O
^AL+W=O^H.KB^:S+ ^|HERK+&W\$^TFI=9YS^Q2|9 73 MY<_O^SP-5T^J|J#&=7%BB_K5#25\$D?C>4A91+HHJ+0LBQ2WEX-K|P,|I M'=
<2|J|JG|=UZO^E:NR_>Z_2X^S|H\$E|)*1&4F95 M|RIYVAP|I@|JY4F2|N@9Y6F\$^A M#|S3X(O2O|AM@|I|O_&L<@&A^U M^#K@K7,8MP^CUP&3-
P(F:<#DV^J=MP^G3:(VOVZ3FH@K^G4ARR|UAE)BUJ^MTKJ:U=IZYH60 B27E&J^J+LU2E8J^_!P|Q=I^H7C|7R|
MC(NVT#R\$U9J|>*Q_5^+>#KBJ30>IQV H3|L_..LW=X=2KY38|B^W&W8G5&^*)J|I^SB^M @|S:|5-W>?02>XUX4%'.^WW^YK7S@2\$6PU5W0|
O>NOOCLSZ,2%(BK_I= M4<=>|&V:8S:Q:10_5BB?B M=:_I|R&CB^&K@&0Z#@OWCF^6J\$W:F|J|M^A|Z2+&B|Z.RG.|IO|L=I M^TA^21\$6UU|V|
(E9J:HK_4Y^ MW_108..=I^<^|E^M^ADC8|08R^8E?WS:2^# RG7PB|D_>5\$KJ|:S|IUE6 MRZ|X%\$%ENFTG|I:DZ&POGN:|BD+^<8N|,
(Q\$|2_|I|O3<:DOM24RWDI@Z|1\$) MF3|IR>G:Z^1<^=Z72>E?>BOL0L+BZ5Y3-9E.I0OW=Y1|NG^?|JKN5^=>DVIS W M5|I6E>+&
(BV6Y|Y27_7_0E7@GI& BD: ("8O?>O^>56BH@ECR|D3\$J1DZ|_M?|LJD:RE'B^D66NQPRE?":U-T#^>-&Y="LX8W=">@H^2(B@MAM(HE,90 M-
%LZ.OQZ=P^SH86B|C.D15|:##51^*(VA:+9T?)=WIG?^JT6+1P5C+5^EKI M5SPOUX7|(P3U5LP_E|G|_6|Y|G08F.HC4|I#\$6\$SM62 L2|J|U:UW|)M.E:DFR

MGL(JR**MDC>E 4J6J]JN.XJEO!U:~\$14Q%U6@G\$B<5.>?5 [DOY3LF MKFYR:V7L6WL:9>Q) ^HJ0FD42F.HFBT-8V1Z:B?SUE*\$T&UJG-&9J
JTW@9J@4J]TAB*9FO V*6>VR^U>QMCDD1SV1: . M*10606DOE\$:A-(BV>HQEJLW.T7G .5@H:0Q2HNA- JE.13-7DAEW%6C?I<:V
M47IT66G)HL1#1*8RB.KO5CK.L#^I8@8B.TEL4#^U!F: M-3&T3 JE.13-UH*Q27VW3WK#U5JFZIDL+>?OX8JOG7TD+3IP.MZ4Y.U"U.Y%
MFU" %\$1C*JM">7^C" U\$WJKOIH1L26YECJT" HUIZ=":0Q%LY5@ %2+I92: MTYQJ726*9I^2SY_GSD\$F!L:~\$4A:1*7%4J]TAB*9FO'&K^
23%J]JDKJ) M\$9060VD42F.HEBT=8ZIZIY:7^K>FR\$WIK16HFPJEQ5.:6G6N0)9Q4AGABK6
MEH\$Q2GVW44I+*1*NYR?.Q@9JDT)IS9060VD42F.HEJT48Z?ZTU:T 5-O%4J+ MH+082J0&D/1: D8+I5WKU=9V55JS-*(H4XY3J.NMR&T=1N-N?
NSGLK 6J- M0FD42F.HEFKVOT5BC=+L:G3>K0J]VBN9JH*(I>Z19%O& M[94890XK:~+ M]2L&*V\$TBB4QE T6PS&PWU#R_0NWT(
M9J/7HH":H%!:~\$51*(VA:+8HC%D:~#1+TR+USG)N?PN%\$DV?DCZ?J!&1 M9^MN6?CIX^WJ!&/ /7>7WULZT
6F4J]TAB*9NMB9T^I\VS^I7BZE6.I^@E0I MTP/AIL=L:B-N-B.XX&K&W^I\W!+ I@K:GO^IGL A7I:&AT.HI:H5 :A=
(8BF+P*BA@7MM:7A.'AKX4.X:GX>:AW%6G\$!^ M=0RHT0FEQ5!A=(8BF8+PQB=+O=OHW.XR')^ ;+N00JZV5:1&4%D-I%\$IC
M*)HMDV.8!N@M#:A#^J51*(VA:+8TC\$.:N!W2KDJIJNC=,FYXJ]8%:JU":3&41J\$TAJ+9 M-P
SUFHJ.T%\$&+7GTD)IS9060VD42F.HEBT=8I2&B:V!ICRU>:VIV^N5 J/ M608Z=V746P%0UO5*HU :0!M/L1C7-72[KEWISXL3Z^IYW-C>S0?4FH728BB-
MOED.1:~\$829J.3W*PVARUJAM A#BZ\$T^J4Q%.Y6SLYM2I6VJ4W5G1ZIW7=43(IM/M8V6NEX>I#.WAFV2Z\$Z'L.BTJDHEL3HZ
M.I?J]=PIYF7S1I6KYBDC=Z529=Z!?!(6J!@/I^OBS5RYNZ@.W#=#J^!U!+ M P04 " "M@&99RD"8S6\$# !)#0 &0 'AL+W=OJ!C#D>I\Z%'GEK8S87
MOJ 3>14GIH-"RRR"JGIH=JY>N- IHY4.J!^ @2Z=,~.ANS=3XZL\$#&< M9HKK(L^INK)S+G:MRRU=K8& YXN*\$KF(YVPAQCOR:6.X.Y).VD(J6
M(I=>=4\$)N0-/I+DA:3:~)= M%1MX"VTD7D%1@4XS^4_5X9T0@3SL@J@#1(2IY4I7@-@E6BIS:4VIH+ A.MDCNB.#2RVOOGC4-C-
DS899P.A4I9XLS/I-4I(QRTP7&4G&64 (W7Q* M7KUX35XO)LCM2PTDNFA:S 3J!="#I67I>KH&=7GY\$8*L:L:D3Y%IUH?*=./# MJ/
1PMK^Z."R^C3L8Y:SY)+PA41"=M0GJADIA17CHX&G^+A>UMCQO?>~# M9JUC9.3*P.Y M*VE*72LW:IEIJBZT:N:PLC# MZ6>UJ6=I U3^6/Z:XC PQ9-
1-?* PDE=JTG03)GCAV>[ONOTDQO&+9-A! M&A2>1ITZ:~\$XKKQ:>ZQ0^!<6VU)Z7M^I+H\$E2ZLJ.SD.IJ+X.L/IJ\$XA MZ4SA6E+V^Q+R?R!?
I-@HMMTZ>7RVW(Y'MI=RO4^I -GNX2TQ3CT2V9^I@-G70 M64>W8'L:Q+^BL^I@-LJVI]=ITIVPR#J]07:X6E0%"IQ^W8JKS6>+I1@&RY
M>CA.)Q8XZ:~\$X3K9?79PCD>TE'@:(W4CPV1I)25(OAZ+= 81IL7_F3=%X+F M4AGV+V38I\VF^C%57\$W7THG83)^?#6TAL6#@I\W@-YK5'-3*J?
:R)&\$?>O6 M^FJIG?&:=&P0=VJR:W-H965T92=NU>3D2D.R@7<*Z^++&/JYI12NI6I[U\L]^<"7U>U>I>^>C
MG"Was\$&TKD0V7EIWT&I>LQ2>^C12Q^M6KQ=S(QIN)LY^: MU=BL^@<%J(S8/<_ZJ!84E+Y&IKGD)9MLWM".FA38RVXEM.^-B^I^I(PX M\$-
#^&X+N3M]IKZ":W\$ _3>^&CQI/UC0!>0:@35\$OWMVNQC(N889.IDANBRMZ6
M5AY4I\$=JZQ<7Y8WR:)2JRW.3+Y0L@#).#7:8"1B!8355G@IDY.DQ(A! M2"(?!?DJIY4L-I-S/*?*=4^IENC.OM&-
TWQOBCS[IT2#~#Z3:M#MM#52"?8YJ 2\$1I1>#1"(I)8L MN#K@N+DGLI43B\$8"NW,IH)?J]1WE.-/ M^X3AQ5\$.1YI4PJ+VKH+IW5/0D-
2*)B3>R4SKK54+^I/<="TIW0B M5K^HM B5%F/1FH'95I#470)? U.:I)E-BI<&+~#M*>CEIHPZ~#C?(I:TZ+2 M8BQ:T^EJ 4S=%?I4B.(F_%>/B:
(O@E:CAZU&A=:8J)2S2HMQJW8B-D *M!UJ19<+~+~PN*\$SM ^06JIV.1M&E7^RDS:8S.JL.5%FHLH.IOI#VO:IK ME%LTI:~?Y#I02P.\$% @
K8I6F:~UT>^*FI@ CSX ID IX:JW'GK M*MLQMI9MK:ILY&G. "N\$50PMTL43YVB&4QD\$C1H MUQ3R8=@(I^F9BH:IX)VD_WI4)9:I.*RTO?
UBZW>:0 &UCNA7XNEJ(C^IM1": M/I&IKLX&:ZTW:X9#%:J%QM5)1L1YV7-3R(OKLRI0AVHC!5I505DZDXW&68!
MR0>+TVK:J5R<#EN=IKFEX\$1MLX\$+I^I/OI@<F&WXHK MH3IO+J59&^XHJ9R3N4I*G\$AQ2W- MYJ.V OPI1\$ST":=@T(FH#&#J."H"IAUS3!N
L9= R9-P3J]J\$JX. MN>:+4UG<\$UD>:6CE0B57%6TZ.L&G+7I:5EF908N+TBEGD.LEO1I7XG0I&7H=I M2+4KAOY?I62ERI>D1=D2-2.2J[IRP.P.Z>!
IGU F]IL3\$GBO"?2HZ\$AJ MEMW#@V.GI ^R1^IP4.0FW"IV.W."XCU"?&#*IPZ^C+8_2."BA=T^DWI]=I L MN^TR-3?IIV7K&QUEE87RC-CP69P-
3^920=V^P^/472^+I2DPE)Q\$PB(D MCC@&EKJCG:HC%WWQO:~%~5%2I%KDB:LD375WJYIH.BS3E4KTZIG3-G53< MHYUMYA3_WIXMR^@.W=2
3LDC)X>.YU-/&J%8%6=XIWV3IUV=C?CB30%6WXS MHXOIGFYF+4-.S24FLDW*M5@UU?58CSO12:MI"RL8>J:@I.L.I^/F.I/BLM#A
25A)SLA)PX43154I(G:D3UO&L.1% ID+I^PD0P&DRG^IT=Z5.RD P2Z.I M3J^I4Z^07\$J>:W.#NQ#9M9J:UY.1%<^ID+ 0^8NO.~6+:.=J+@.3&5)=
M?Q\$PBD(C%&EKKSG:ISYR4:/0@9J)TJ0C4QBIVG&*56IWI^9M%N%CEJ^I+I M.G=#^#Y)2V M9-O.75FA!@R4%D)I\$93&4#1.YM:%44?
(RHKT59906@BE15:0J!LD500QW. M/MTWKZU-709_2R3PX=-G<:7E+V#M%I\$W+4#1.FI.1=U^S@5 M*MO*HY4H(C MI450&D/I&E:YI>?(FLKU
2^TD(H+8+2&I(FBIP20:13BNA=6V?QX_IH3G@ M3MM:PYI(YA:AJ+9VK0^CNV5OSAR+^PHU?Z^T\$!+H#2&HMDMB MI4=9L_U%JP:I?
Z.:IPNMK4=MLY^Y.SD4N="JM2D_?NENXY^C1XH+832(BB-H6BV MV^W10Y%:/5I."*5%4I#T6R16Z.NHV>2_L?R\$:(V/I4?BN.:@QJYP=*
M"Z&T"\$IC#:U1W6!7VIV3I@& K5UKY&W\$70E9^EEGI+^6Z\$N1.N.IA":F90 M#:~F\$)0606D.I.G:#2F4(
TA0*H*Q2EA5I:~\$4Q%T6N36@I@~"KF90:6& MFD+14U-H.L_86@21F9H08FD^I\QI2J R U64W&D)-(B@M@M(8
MBF9+O3>5"SJ7"SN9"SN:"SN="SN?ZY?824K)P5.J.Z3R=L@K D@I^&4C@_? M+>EZ8.AN5&J!H-8/BE8+MR:7YL>5O-A%8D+K:YKJ2:
JRK:N9EN K>88#JO# MZZG:~\$UOZ>KDBJ:@QH:ID/U25K&< URN75%2S=:+K8N1GEP+OA^R/L^LORD*M_A2MC-05_1"U!+ P04 " "M@&99#I[U-GYD:
JRR \$&0 ^AL+W=O M2U!UOZUO5Z\$KJ!<-< GMVY?WEQ<5Z>EQ25>OSU7VJ%~^Y7CSW520^ MV=QKF>KY9:
M4U_>91ORSUT6BSQ>./.^KI>^5K:W>OJ]5OFW_\$LO_/IIM=JA?UM-T8 ME?C/M_I3O5AL*+&C_IJ]9RI%-QON?
OVLIX W7MR:KJ6Z.KI:~&E-VJ /DN=M::ZNGI8M+^LOD?TJAIY9+V76J2P?I_V2PN\$SH-M^KIN5W2:C<4>W.V73 ^M M2MIV8F<#W7QE

M5H:5ND[M5H'N5DEI '>41:8GZL6HKYIY7*OGT']\$[6^~==>@%,:4 >SRA*6I4
MIUSM0+40U2)4BU\$M0:44U3)4RU&M0+62T0I3TMT13VSR13\$T/HUJ1JKYJ!/@ M6HAJ\$;K%)D:@6HIJ&:KEJ%:@6DEI 1'5I:4GZK2V WO=3.?
K6KMOYM:15+11.MT#J:~CFHUJ .B&J1:~6E:S5IY^JNLW1&XUC'R^H05S5' M0K:2T ESITM83 M==IZT G:&Q?V5^ ~'X'&\$1K-1S4>U
-5"5(M0+4:U-525.M0+4>U M5*2NL/ MMBZ1(7)U -7"K=9:V-IQC.G>POYHTIC5\$E1+42U#M1S5
M'E0K*:T.~:18M:N.5>1=%%6G=5?5OR7SB8T:XUJ1JKYJ!:@6HAJ\$;K%)D:@ M6HIJ&:KEJ%:@6DEI 1%F=/_ ,_K7#3'C6H>JOFH%J!~B&H1JL6HEJ!~BFH9
MJN6H5J!~26GJ\$=4EQVTZ:X&I/XI~F.E:CZJ!:@6HEJ\$;K%)D[N,ZYI&U:~T:KI
MB54SM&HNJ2K 4EQU7:SEI :G1Y:I=9335K:ENM3IX=~'AVH^J@6HJ@:A&KQ M5CL^L.BJZ8E5.
[I]CFHJ1J64U0Q733:54>S~.Y:K316@P9.4K4K1BKJ<%M. M14UAHYJ!:@JA:@6H5I:~@FJL:B6H5J!~@6JE936'U!=""MLE4I@NFL&@_0_5 M2
%0+4"U\$M0C58E1+4"U\$M0M5+ L^:VU6 MKZ?~LIT35?7G5UIN:~@%:V _%:HC'G^IA-F _%=>Z>KY:Q>KI^~J]6IUFU M0#EZOJR6TIDXI5NWXH:
I>MFNVVG2?~VV^E9KJIZTCSFM->\$;KQ:4==~*+N MGBL2T^Y7S>~VIGU3UJUG&G+S>GBW6K9WJZU6F S!J!@:QIO<6GCT30^&IGC
MR & Z^J[M:E7TVI]UOT5M<I>W7229\$1A2KJ[VINO:JM/KR JYN:~E.16&P2 MI@_+=O.+L\$E9Q-PN=05Z[ZMP^=\$XNSBX=8O/^N2VU/1E?
9I9EO^/;2<7 MG>~RVW+SZ:L~NORLR6IW;I~.MN=RX _[+>Y?>]I+>WJUL7=UJ7W6Q=W7)?>EJU7 M#="E"=!'W1I#PS1 T:/T/TP)~VP!
1.0L\$0/=&D/=�I#H0_3 D/: M\$~MPI#TP1!_0: T0~V@~#J!~OYF L>C"6FJ L>C"6FJ L>C"6 902OVE
M/1B+'HRE/1B+'HRE/1B+'HRE/1B+'HRE/1B+'HRE/1B+'HRE/3!%#TOI#TS1 M U/: U/TP)3VP!0L_4S8#.\$I#TP10J!_0JL T0-3V@-3J!_4JL 4/3'E/3!%
M#TOI#RS1 T0: TOTP)~VP!~(JL\$0IL\$0+&D/+S)Z-0V@+1!_2JL 2 M2!~D/!\$~RQI#RS1 T0: UOTP)~VP!8JL_4JL\$4:&D/!~\$#6JH#6_3 EQ:
M%CVPY7Z~G0I#P9V10IL:0ILT0:Y@~L!_6JL 1/7/D/!\$#QOI#Q\$1 T2: M T2TP)VP!\$!<QI<=Q0/&D/!~\$#1_Y7B6/QI3V!;ZOFM~#V@_!J02P.\$% @
K8!F6"?~O^?X P & !\$ M !D !X:"JW:W)K&ULM9C;~N.V\$ (9?A5^+8A?H M6B1M^9#~!G+8HBF~
EBW8W8M+QAL:11"U1Y5F@#U^*DB4ED6@W2&ZB\$V2^ MGX?Y&I^J%>0\$?>DCB5^V1K=;9F>^K<L)4P.106J^K(5.F#~N8IW KD0^BY2I)&@J!
DY04-B@:#X!>16Z1I7YH2X M+QZNHX6^?>~00ZB?Q.<Q=<G>50D.CZ^5DF16K:(~!PQIOL.VZ<1<47(KX M.P T=N%-
/13!FN6Q_B3VOT#5(6LP%+&R?I&^~HLI%.9*BZ0*~@X2GI97JE - M1"M@2'L:~!5 K>I2R+J8IHMYU+LD2Q:FVS%<VJC3:F>%K.RDI+Y6:~+V!
M9IG7+&8K+<@/I/LX*~Q>H^I#59 _%>Q)KID)E5*MT!~Y5JES4WIDG M+GVY>@Y.Y#I[:9D\$A7B* MR*7JF&:NYK8I_0V!~TD5I6B298F\$;D>[M0A_3
M1*~+!~I7MU>~NCC17F\$5V0\$A(2*8CM~WR# X+~!A.6SIBD.K.I.L.W M9JH0F5H-7 I5<=>=F8HB6.9"V^AF2I3^@+7 XCHSO3P2?HIKGR&8?JHW\$
ML3GIHJN0<~\$M5I200&YH:~.2 _U_!_67)2I4F-L~0J(I9T MINZ\$;UJ6Q.GK6NEJ>~4TJ5<4+&BDQ(MJBT%IN>~.:=M-G>A]I@+L%9I7@
MS^EH8+P&KBSR@WK)TM OE:~F5J]2+~FB^X(2IY&NPJ\$K\$X^XF~COWLF@JIP M3ISBOXN=10I@641<+<[G>R]14QH8Y:~+8ZJ * LOZ\$^<6/_!
=(R6^F:V" G MJIBKH?3T5% ME>8)IWKU&PX3~XV)H\$SS0M8U<~@.N.GJ~VJBXPM^J@:%.%<~<0:~38%ZMX43D#%D0PWU!M">~B8N(RU6P6U+U9O
XJ?)#JWKP & /< MLY219GN@3GPI>~\$%M@M~MA^OJ14H:GM-C/2!+~. 2!2AN4B\$213I58E>81 MQD9D.19EH:~U.WM4S&G.U?
E:POV3&YXJ%~A:~+I.Q\$C+1AA>/FB1V:(OG=#F&(UOMI BD\$4#WTM MA#X1%+UCR^+ P102P.\$% @ K8!F6:Y& ACQ"@+)_!D !X:"JW
M:W)K&UO~U=WO1V KB!+T! YZ#89**S[E6K!~+/_ Q4U?6#PPOST:OK:@2Y=2EYISZ:KA59LE!\$621HQN:~LX" 3WD675 I9+M _):
(AV+G:ZULO~M=9I]W^JG!~#T:U)HGEYF)8U\$5= W(M+~9_74K4=2S3H8+@. M>N#NNUX^ZNWIRU9.YC@MQF###&SPPPFP
MH6NPF@'6H0&S8#QH0.FS8#)H0..FP"APX:0:<~*K@MUEP>N@ 223XRHT.M'K)IL3=ONLVJ9/T6L^ROCC+LPOO/I+I2MT/YZ9R5I:FK.J _^JG&
ME1=793:JINYL<~<929HDJ\$:.?ZVIL4<~<J0'BKO=~^7MG:FY>~CJH0ZVX MBW-1\$FJ?4V3LOBY>K#Z^M>I:~%7\$Z:PX&Y:55M7V<~
ILP>5"XQGMN14^Y2E MY5VA>~E.S.3OP^K9!)~2I2B4AI*~%S-CI31^&2-&E~U:HAU^Y9%FCM;#
MK8IAIN'#S8IACGJX+~;5<~TJ^+ACN^OX!\$G<~.PX>..X?IAPIM^=,~++~UR< M5B <I\#P!>I9./#E^I]7@:FMMD60/5":K>C]9 _UWM:06E&)1 *IC.SIN
M6~N:K7>QIXME/7G@VH26HC7@PN OD/23+Z5J!IG<~IL\$G:(S^4QV1I\$@M M+~"2Q"~*DI%G:1%JD] ++~+I]QW2M/JL+
(W&8O9U4N)=4W721FDYA(8BZ)>23F MDUBEP~9KKZ\$W% HH_5_9I/[W>~0^XU>~7JF4B?&V\$V-EJHJ\$!+UQ3U3NCQ MF*V:415E=9"6I+=~R5""?
9.QWGM:~Y95+~2STAVE3:W5(S'4QC1I\$@M(+~Q_MV8^/K:&~^I)T%JE:\$RVV9CTSD92%~NGLX!+~16WUA.#HT%N5:~Q%P2ITC.M)I&
Q+J~E V96\$!KE6Q(W%13(6OZ1I/U4'3_76I2~JN~H=WF<5^J^F16ET&I(B M~2NX E~:E-DYQL64IGBLUUW: W2:K9V7P~YX6V%/DF66^I(I7B?DD%I!82&
(1A\$EJ.IJ&I53Y)MQX!&3>53G.W.ZW.79621JNS M#3:9V549H.G>ZJN92:R.@ZY42Z>23EDFA 8B&11 FY4(2M9_C)3^\$64 MFOA>IT*!&8UU3<~
C2:IU8_WD+H.AU4YQ%NLOQ&~&7WJ02UU#L ^MZLTC G^PB5^J@FHMJ1JKYJ!:@6HAJ MS:7) 3+~!G*
(TFBC@~^NYS2D97PK.K.C1IGAIIY8-0544U#15I5 M0 M+6RT>N>R _>=U=&Q.5I/K5_3ELO7)62JUY\$?
\$!^7.SDWDI+IKM=I T!^OGZTYH8@VZ8BVH>JOFH%J!~B&H1I.UWM(Z":C6H.JKFHYJ&:CVH!JH6H%E&:G+JXV:"K*PI_OJRU102 M.Z:D9C>:~
FP93PIMD3K\$;CFH9I!:@JA:@649H7+DS&T)M#HN_L<I@_LA
M2I!~BVH>JOFH%J!~B&H1I/5TK/ZUIF8?)TW6NM^FIOJFK=V/V\$VNWXC097Z7Z":BVH>JOFH%J!~B&H1 MIK3VCO?
T2=6T&M8H)J+~AZJ~@:6HJ)C(A&ER5EJ6QJ& MNJ7I)SHP:JQWC(X/CA:R4 U0!4I5/-1+4"U\$-4B2I-CU%8RC)M:6(8KJ3\$- F]JK9J!:@
MFHMJ1JKYJ!:@6HAJ\$;7)UJNQBENHGXQAD+I2B^Z4(UV)SQ<70>:SKH:EU4 MU#~1I4 U4)ABRA-
#D:O#~5S8M^DRPUUCM^@WY+DI&U5"U^J@FHMJ1JKYJ!:@6HAJ\$;7)(6KK%J:Z:O%~E7JLJ1KWF66NV=)KIJ@6H.JKFHYJ&:CVH!
MIJH6H%E&:G+~FVW>I^UOTIV^MXL?P8&

!PDBF>JG*;XXY;P>Q>[6%<:;IL^ZJW;N:LL M_ +T3A0+DRJ]J^2^X;K^~^FM]?G2V]Z]^D-GX?4T=-AC&ULK55+;[LX\$+[[5PS4]Q(@M6S9
MR;L;+6H18W/2/ 6 M=Y9W/20R]UDT;#Q7P9K;=7UW/Q'00^2;RY?SX2#;&Z/;:=IDRFGA?'J# MCR;X&M4;5,H#;8V'#C.;7'K#PW6/_F>(G6/9"
(W2\$(J=I(J(B8EXN#CMG#ZW3I-? M_ T-[XVFTL%;G6'VHWW_ 0Q1)'T4UVE1P'NLQS";G\$SR2>9^!&9#5F8!;::
ML_ JEO7#dN>=>^/I66U0!;~ ^ EYV6J2XC/B";.1:C8%OGCTTO'F^ Q'028IH? M0U_ =&+Y)&5K1W8^LC/N89=:670Q4YR/HZX=I#1\|YP_*A%4ET*A,S
LL M_76CP@I-F\$#M6I5#ICL_ M_ DY2^34W+1BIWQ!M^!3)O#AS?JIG\$AY.GJ>7IZU(VG)U_4CE/_QX+^_9U/_ MAGE.89P.6& 9\$XT\$C: R-
YGI1M3U4+O@W0K6&B#D=S_ J!&F_ J1R4=>DV>E M_ (W^Q;?P248G9!>XV>^"@<61'(U8)W]!'M;LA2^)*P6HV/G_ 1^VN>^@YY.;@MUVK4
M1I1T5+F.QR9J4E8SB\$MKO!YVNF(FE+FNL9^Y%#XVPU(950T_ N<1"0^Q^R);GR+G+?&U;MMQ;"6.MKT<^U^("5H2)I'W^A>9)ON75Z)VK/HMI8&CIU
M_>#D5BA+<+@/I!W;+&JGXR =WI9U_M_ J!&ULK99M3JLP M\$>_ B16A^21T00)6!"]FB58^KHV^X(07KCM?P_L R^M/M9R=IEJHA3-K> M-
'ZX_ EW=FYHXU4ASH0^*2<*3HR8HGKNN#F-(J#Z1^0BSLY0JH6BE^N7J M5 +66S MG4RCL>-9C_ 0HO5 S6_- \$^#<^C(8OTJ)?
3G6D?=:6^1W>>PFE@75.)\XLP M'CNG#HE@23_.IW+Sl;@+? M2T/!EP+;P7=4M#- RW(K"N^*)/L2&*MMO-E;GIM<;)APE9QCLKLJ/#
MX!XT4@13%R1R268^UODQFF^2J=891.2&21^1CF9;PTU;P^I(SK_ *I+KF^
M%>HTHL<[2];@GL@188)IBTVK9\$>N6B0!<N6)<=%GC^&W&=OGI'N=TOIS^2A_ D5.3PX;N+Z9S<[>-VJ MG-W<; <-O]=*244F4JGB.J'\$Y-
Y4B)G5&9A^1"ZBG^:U^NI8K_ [CK?%#IE:F MGYH^51S<;S]8-IMSG=(0QH)DAK4&IS@XX2.P/OH0^5K_ 39NR(>QN;U!60.S0Y02MQ-/0/5_ /@-4\$!#1!0 (
*V_9EFM658F M\$>@8 H^9 DEC15=>PJO=VJR-W-H965T\$? QYSQW^J? QYSQW^J?2J?DSCEEZ.M\$+MWBL+76YH\$ (+M;)_ L^"R
M)!#9K9K1^"ZC05B^9DCE15=52DBI^1XMY^=EMMIBSO8BCE-YFA_ ^3).C^N:8Q M_>[P<;G^#ZBS584^RB+>218T!45^W>W6;ZEU)0P2FC*
Q:2C#Y7^CJJ M_Q:"T_ =/=+?<^7OG[@-ERS^*PK%IG(T^9&0/@3I6-R01YI6.UIV<_ UB7OXE MC!>V5MYXO>>^)94XJT\$2I2SL0P6*>L4>2%;US6O&F-
21MSDIAEL;>78DL S_*>6^QVMJ\$^F5/4T&<0_ Z7D1^I72D M_!E^K^1^K^YL^M-ANJ;EP_ 9X8^HYENBJIK9=3SDI_C_6XH(8VEFY+9>OZ^Z7 MJV?<
ESH_)WII!+I^9J)U9FT6QT^WV193XH;CTDSS"; M""3.1<().P_ PIP251LPQ^XOO6%75N7+H-2XJ]M18JPD^Z3QU;=;FMS3K;Z MN4_-1.29B-
A#A+F(F\$>\$N;#8"W/6;7G+/_ 8:B&JAX392)B#A+E(F(>\$^2/8 MRWN3VGL3J!/@J00VU^A)F(V\$_. \$N8B81X2YD]>CJ^GA]!L;FIU^((KFD64DRNR
M9.F9B^ZCRFY\$>@/S3<UE;J^9<I_)OUMIT^&0)L_ QIPEPDS^?2I^L M9=I9;= 9>+R=(V^A^E(F(\$N4B8AX3Y^C+>YK);(J!)/X1-BQ W?\$KX-
M!)@21CAAJNHHU@K0*-1Y;5GV=KT\$9%42'G.A_ !*U&TMJ^;(FA;JCE M/MG^0^&0+2^&0E2;IXZIO^0^F=7IED^2" C- MA=(^*U^T=K>;A81-&E.W-PR-
^9;E2:3W1#(F8.O7="E1^C-@=<^*V#TGP4 MK>W#9D%!.!W!AIT30%^LZ\$T!TISH30/20-1M+8)F04(3;X\$T>1&_ ;KZ_ *79
M%>WT>D.WIX;Y_ .1W.M]9.N;3=OM7&CO^C-1!;5FD6#C1I-OP=T4S_ .9L9!%GYIE!%IH[KZ;J9L[4%V5]5-FV)9H!7Y.^FEL2+ZPVY M##21A!
(<^*V%TCPHS4?1VAYM2K.A_ =^SRV6!AXJADT=X^2?^C-@)J)!%WMLR;@_ U_L!LXX_54!WNG=O)0T=5^*M_V&TAPHS872/"C-1!;YFP2?AWJG(.C?>A-
!M^5";CZ^UW=7IDKHM_ ^Y^8U_ MF8)W6PR;T4-I#3F0ED>E.;C;S>+*2_ %2U!+ P04_ "M@&99M15ETD#(H#_ 90 M_!A!W-
T>6QESPK<[6L2].WX(PET>X3H5RTO>8MJB6%=>5LA-043\$18PRS5GP2.60C^G@.\$16!E=<< MBY4+=R P+42A
FT^U:1J0Z1Z2FD7(Z^R2U^M;NF#DITR(WC_?V8!VLM!_ L MCLFF:05532?C.J^" K>;TMV6C%<^D&^7)LI)>%F8ZT?2AL=JM8QI>VO!P_ YAZ
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MLN!^" VD^>?70^#L;L;U^C^7T48YC^9^Q_ 6IY_ \$S\$7Z9)DD4Q3&VHN_Q MU!\$86/R!W3UO-EXAA^L VI-#>8+^*%I\$;^X6@/B7S=@ M)E M]!P.IV
!E=R_ /7SEY701!"KF#7N^<21). 1J1T^C^48RL3@P?_ Y@ M3TD4)8D?^NOS \$P(L !/!X3T!MP>+4#M_ *2VBZD8 M_1!2:5K5N(MB6/!(M7-
>=I3W+TJ!;X^O.DQO0FE(2S.;_ W2?S+WPPU1>5^Y5;GC3Y?YVX\$G1 MH2)8%II^R=.B^5_ "BUH:6P3D4B7D)PZOWY^ MAP)?..1/SP8>[TYE!;FKMIJ]-
JIOS!=B5&VBD^JML M0>=>E;E^1+AIU^V.WM2 KMP^P33U^JY.S<2.5^GWI^S7W(!##>^_ ALIH.P;_ MOBMX<^" INTVQ4TXM5;W?<
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V=1/UJ5DLH023.AKB4 M6X5Y+7K+E/8^6(E^G^D1M^>^>_ D_ ? M2ES^SME6E^QO:5S;3AR4H1^*.C^NWP2<^<VH R.(211_ @E!>YG(O=DI_ MP?<
8_ IQ9#5]J5M7%ME)FDE^M29E?@/V8J\$)IPC%>=R2XL#IAU?I.C0%+^2)F5 M_9!W_ B66^V/&EIA4@/D1F15R- L5?2IRA2D).2BHILU3HS^^^J69E%DSPZG?<
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VKM.ZT 4A=%7B?P_ 3/8MP!&AHJ^%Q(5)A>10)8!"AIHE^\$95&KU;Y8=N17;(Q_ ++ MX3>#; C-N^2S)!;89/+LDD?^!OI,9T/7Y;-V/@B3;H=I!"DJ8,,
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+PS;9K%=@T+!6AD(^7^*9^NUS6!96VV+1I21Z<)U.&BBBV3;XO M>C^>^..T_ J^CX?RHP^IID/WKJ03LS3X7^O1^*OGKI4B^RLOS_Q(S&5/OKI
MJ#_ MDLI?9J?M2;9^/9Q^8/M_ #W^2.82I0_ LOX#T(4Z4^!I) ^YB!JG(+T M<0;QOSE(WR&T@B^J!R^5(YB^D=IE;HRE%8Y2BN&UL4\$!_ A0#% @
K8!F67KH6@?N^P^!\$ M_ !IKP^108U!R;W!S+V-O&UL4\$!_ A0#% @ K8!F69E<MG^0!@ G^<^! !S\$ ^AL+W1H96UE+W1H96UE,2YX M;6Q02P\$%^
,4_ "M@&997A9C+Y_ #Q) @(\$-M_ !>&PO=VJR-W-H965T&UL4\$!_ A0#% @ K8!F6N^<M^&PO=VJR-W-H965T^M&UL4\$!_ A0#% @ K8!F69R+<
(3AE^P^&8!@ M_ (!S\$B^ ^AL+W=O=O^&PO=VJR-W-H965T&UL4\$!_ M A0#% @ K8!F6;#&QO+&@)4X!@ (!^CT ^AL M+W=O&PO=VJR-W-
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&O)@S!AP>PO=VJR-W-H965T2 !X;[!W^W^K&UL4\$!_ A0#% @ K8!F62X^B2A&@ 4Q! !D (!^CZ ^AL+W=O&PO=VJR-W-H965T&UL4\$!_ A0#% @
K8!F62V!;KIT!0 2PX M !D (!^L+ ^AL+W=O&PO=VJR-W-H965T&UL4\$!_ A0#% @ K8!F60!ZCZM# @ B@8 !D M_ (!^V< ^AL+W=O&PO=VJR-W-H965T
M&UL4\$!_ A0# M_ @ K8!F64S!F74K! H D !D (!^4>0 ^AL+W=O M&PO=VJR-W-H965T&UL4\$!_ A0#% @ K8!F60U^ M-83@ @ 0 8 !D (!^!&?
^AL+W=O&PO=VJR-W-H965T&UL4\$!_ A0#% @ K8!F61R!_ 9 P !PX !D M_ (!^IOP ^AL+W=O&PO M=VJR-W-H965T&UL4\$!_ A0#% @ K8!F62M_ +D\$!
!4 !D (!^ M30D! ^AL+W=O&PO=VJR-W-H965T&UL4\$!_ A0#% M @ K8!F67)P+^! P !A(!D (!^U!^ ^AL+W=O&UL4\$!_ A0#% @ K8!F69K21C68 M! *1D
!D (!^IAT! ^AL+W=O&PO=VJR-W-H965T&UL4\$!_ A0#% @ K8!F67?>^?^R^0^><^!D M_ (!^K^D! ^AL+W=O&PO=VJR M;W-H965T&UL4\$!_ A0#% @
K8!F6;^UT>^*F!@ CSX !D (!^!M! M_ ^AL+W=O&PO=VJR-W-H965T&UL4\$!_ A0#% @ MK8!F6;Y& ACQ^@ +) !D (!^Y&K! ^AL+W=O&UL4\$!_ A0#% @
K8!F6&PO=VJR-W-H965T&UL4\$!_ A0#% @ K8!F62PN!+!9 P ?0< !D M_ (!^F84! ^AL+W=O&PO=VJR-W-H M965T&UL4\$!_ M A0#% @ K8!F6;?)=) P
^*0 T (!^FI(! ^AL M+W-T>6QE&PO=VJR;VIO^VLN>+&UL4\$!_ A0# M% @ K8!F65EV 2CU 0_ .^H (!^TIL! ^AL+UJR M96QS+W=O XML 73 Show.js IDEA:
XBRL DOCUMENT // Edgar(tm) Renderer was created by staff of the U.S. Securities and Exchange Commission. Data and content created by
government employees within the scope of their employment are not subject to domestic copyright protection. 17 U.S.C. 105. var Show=
{;Show.LastAR=null;Show.showAR=function(a,r,w){if(Show.LastAR)Show.hideAR();var
e=a;while(e&&e.nodeName!="TABLE")e=e.nextSibling;if(!e||e.nodeName!="TABLE"){var ref=(window)?
w.document().document().getElementById(r).if(ref){e=ref.cloneNode(!0); e.removeAttribute('id');a.parentNode.appendChild(e)}}
if(e.e.style.display='block';Show.LastAR=e};Show.hideAR=function(){Show.LastAR.style.display='none';Show.toggleNext=function(a){var
e=a;while(e.nodeName!="DIV")e=e.nextSibling;if(!e.style){}else if(!e.style.display){}else if(var d,p;if(e.style.display=='none'){d='block';p='-
'}else{d='none';p='+'} e.style.display=d;if(a.textContent)
{a.textContent=p+a.textContent.substring(1)}else{a.textContent=p+a.textContent.substring(1)}}} XML 74 report.css IDEA: XBRL DOCUMENT /*
Updated 2009-11-04 /* v2.2.0.24 /* DefRef Styles *.report table.authRefData{ background-color: #def; border: 2px solid #2F4497; font-size:
1em; position: absolute; }.report table.authRefData a { display: block; font-weight: bold; }.report table.authRefData p { margin-top: 0px; }.report
table.authRefData .hide { background-color: #2F4497; padding: 1px 3px 0px 0px; text-align: right; }.report table.authRefData .hide a: hover {
background-color: #2F4497; }.report table.authRefData .body { height: 150px; overflow: auto; width: 400px; }.report table.authRefData table {
font-size: 1em; } /* Report Styles *.pl a:visited { color: black; text-decoration: none; } /* table *.report { background-color: white; border:
2px solid #acf; clear: both; color: black; font: normal 8pt Helvetica, Arial, sans-serif; margin-bottom: 2em; }.report hr { border: 1px solid #acf; } /*
Top labels *.report th { background-color: #acf; color: black; font-weight: bold; text-align: center; }.report th: void { background-color:
transparent; color: #000000; font: bold 10pt Helvetica, Arial, sans-serif; text-align: left; }.report .pl { text-align: left; vertical-align: top; white-
space: normal; width: 200px; white-space: normal; } /* word-wrap: break-word; */ *.report td.pl a a { cursor: pointer; display: block; width: 200px;
overflow: hidden; }.report td.pl div a { width: 200px; }.report td.pl a: hover { background-color: #ffc; } /* Header rows... *.report tr:rh {
background-color: #acf; color: black; font-weight: bold; } /* Calendars... *.report .rc { background-color: #f0f0f0; } /* Even rows... *.report .re.
.report .reu { background-color: #def; }.report .reu td { border-bottom: 1px solid black; } /* Odd rows... *.report .ro .report .rou { background-
color: white; }.report .rou td { border-bottom: 1px solid black; }.report .rou table td .report .reu table td { border-bottom: 0px solid black; } /*
styles for footnote marker *.report .fn { white-space: nowrap; } /* styles for numeric types *.report .num .report .num { text-align: right; white-
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align: left; white-space: normal; }.report .text .big { margin-bottom: 1em; width: 17em; }.report .text .more { display: none; }.report .text .note {
font-size: italic; font-weight: bold; }.report .text .small { width: 10em; }.report sup { font-size: italic; }.report .outerFootnotes { font-size: 1em; }
XML 76 FilingSummary.xml IDEA: XBRL DOCUMENT 3.24.3 html2363241true10false4 falsefalseR1.htm995100 - Document -
CoverSheethhttp://xbrl.sec.gov/dei/role/document/CoverCover1 falsefalseR2.htm995301 - Statement - Condensed Consolidated Balance Sheets
(Unaudited)Sheethhttp://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheetCondensed Consolidated Balance Sheets
(Unaudited)Statements2 falsefalseR3.htm995302 - Statement - Condensed Consolidated Balance Sheets (Unaudited)
(Parentheticals)Sheethhttp://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet ParentheticalsCondensed Consolidated Balance
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(Unaudited)Sheethhttp://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatementCondensed Consolidated Statements of Operations
(Unaudited)Statements4 falsefalseR5.htm995304 - Statement - Condensed Consolidated Statements of Mezzanine and Stockholders??? Equity

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<http://www.quantumcomputinginc.com/role/ContingenciesDetailsContingenciesDetails48falsefalseR49.htm996024> - Disclosure - Capital StockCapital StockDetails49falsefalseR50.htm996025

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Compensation (Details) - Schedule of Option ActivitySheethttp://www.quantumcomputinginc.com/role/ScheduleofOptionActivityTableStock-Based Compensation (Details) - Schedule of Option ActivityDetailshttp://www.quantumcomputinginc.com/role/StockBasedCompensationTables52 falsefalseR53.htm996028 - Disclosure - Stock-Based Compensation (Details) - Schedule of Grant-Date Fair Value of Stock Options GrantedSheethttp://www.quantumcomputinginc.com/role/ScheduleofGrantDateFairValueofStockOptionsGrantedTableStock-Based Compensation (Details) - Schedule of Grant-Date Fair Value of Stock Options GrantedDetailshttp://www.quantumcomputinginc.com/role/StockBasedCompensationTables53 falsefalseR54.htm996029 - Disclosure - Stock-Based Compensation (Details) - Schedule of Exercise Price RangeSheethttp://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTableStock-Based Compensation (Details) - Schedule of Exercise Price RangeDetailshttp://www.quantumcomputinginc.com/role/StockBasedCompensationTables54 falsefalseR55.htm996030 - Disclosure - Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common StockSheethttp://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSI Based Compensation (Details) - Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common StockDetailshttp://www.quantumcomputinginc.com/role/StockBasedCompensationTables55 falsefalseR56.htm996031 - Disclosure - Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards GrantedSheethttp://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseforServicesExpensesforBothSharesIssuedand Based Compensation (Details) - Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards GrantedDetailshttp://www.quantumcomputinginc.com/role/StockBasedCompensationTables56 falsefalseR57.htm996032 - Disclosure - License Agreement ??? 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Disclosure - Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted", "shortName": "Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted", "isDefault": "false", "groupType": "disclosure", "subGroupType": "details", "menuCat": "Details", "order": "56", "firstAnchor": { "contextRef": "c8", "name": "qubt:StockbasedCompensationExpenseForServices", "unitRef": "usd", "xsiNil": "false", "lang": null, "decimals": "-3", "ancestors": ["td", "tr", "table", "ix:continuation", "ix:continuation", "div", "body", "html"], "reportCount": 1, "baseRef": "ea0219572-10q quantum.htm", "first": true }, "uniqueAnchor": { "contextRef": "c214", "name": "qubt:StockbasedCompensationExpenseForServices", "unitRef": "usd", "xsiNil": "false", "lang": null, "decimals": "-3", "ancestors": ["td", "tr", "table", "ix:continuation", "ix:continuation", "div", "body", "html"], "reportCount": 1, "baseRef": "ea0219572-10q quantum.htm", "unique": true } }, "R57": { "role": "http://www.quantumcomputinginc.com/role/LicenseAgreementStevensInstituteofTechnologyDetails", "longName": "996032 - 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Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r46", "r725"] }, "us-gaap_AccountsReceivableNetCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccountsReceivableNetCurrent", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "terseLabel": "Accounts receivable, net", "label": "Accounts Receivable, after Allowance for Credit Loss, Current", "documentation": "Amount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current." } } }, "auth_ref": ["r909"] }, "us-gaap_AccruedLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccruedLiabilitiesCurrent", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "terseLabel": "Accrued expenses", "label": "Accrued Liabilities, Current", "documentation": "Carrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r48"] }, "us-gaap_AccruedLiabilitiesCurrentAndNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccruedLiabilitiesCurrentAndNoncurrent", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Accrued interest payable", "label": "Accrued Liabilities", "documentation": "Carrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities." } } }, "auth_ref": ["r102"] }, "us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable": { "parentTag": "us-gaap_PropertyPlantAndEquipmentNet", "weight": -1.0, "order": 2.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable"], "lang": { "en-us": { "role": { "negatedLabel": "Accumulated depreciation", "label": "Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment", "documentation": "Amount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services." } } }, "auth_ref": ["r26", "r150", "r559"] }, "ecd_Additional402vDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Additional402vDisclosureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Additional 402(v) Disclosure [Text Block]", "terseLabel": "Additional 402(v) Disclosure" } } }, "auth_ref": ["r798"] }, "us-gaap_AdditionalPaidInCapital": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdditionalPaidInCapital", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "terseLabel": "Additional paid-in capital", "label": "Additional Paid in Capital", "documentation": "Amount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock." } } }, "auth_ref": ["r58", "r725", "r1056"] }, "us-gaap_AdditionalPaidInCapitalMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdditionalPaidInCapitalMember", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Additional Paid-in Capital", "label": "Additional Paid-in Capital [Member]", "documentation": "Excess of issue price over par or stated value of the entity's capital stock and amounts received from other transactions involving the entity's stock or stockholders." } } }, "auth_ref": ["r594", "r893", "r894", "r895", "r898", "r986", "r1057"] }, "us-gaap_AdditionalPaidInCapitalPreferredStock": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdditionalPaidInCapitalPreferredStock", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Additional paid in capital (in Dollars)", "label": "Additional Paid in Capital, Preferred Stock", "documentation": "Value received from shareholder in nonredeemable preferred stock-related transaction in excess of par value, value contributed to entity and value received from other stock-related transaction. Includes, but is not limited to, preferred stock redeemable solely at option of issuer. Excludes common stock." } } }, "auth_ref": ["r58"] }, "dei_AdditionalSecurities462b": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AdditionalSecurities462b", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Additional Securities, 462(b)" } } }, "auth_ref": ["r854"] }, "dei_AdditionalSecurities462bFileNumber": { "xbrltype": "fileNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AdditionalSecurities462bFileNumber", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Additional Securities, 462(b), File Number" } } }, "auth_ref": ["r854"] }, "dei_AdditionalSecuritiesEffective413b": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AdditionalSecuritiesEffective413b", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Additional Securities Effective, 413(b)" } } }, "auth_ref": ["r852"] }, "dei_AddressTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AddressTypeDomain", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Address Type [Domain]", "documentation": "An entity may have several addresses for different purposes and this domain represents all such types." } } }, "auth_ref": [] }, "ecd_AdjToCompAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToCompAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Adjustment to Compensation Amount", "terseLabel": "Adjustment to Compensation, Amount" } } }, "auth_ref": ["r811"] }, "ecd_AdjToCompAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToCompAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Adjustment to Compensation [Axis]", "terseLabel": "Adjustment to Compensation" } } }, "auth_ref": ["r811"] }, "ecd_AdjToNonPeoNeoCompFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToNonPeoNeoCompFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Adjustment to Non-PEO NEO Compensation Footnote [Text Block]", "terseLabel": "Adjustment to Non-PEO NEO Compensation Footnote" } } }, "auth_ref": ["r811"] }, "ecd_AdjToPeoCompFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToPeoCompFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Adjustment To PEO Compensation, Footnote [Text Block]", "terseLabel": "Adjustment To PEO Compensation, Footnote" } } }, "auth_ref": ["r811"] }, "us-gaap_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Stock-based compensation", "label": "APIC, Share-Based Payment Arrangement, Increase for Cost Recognition", "documentation": "Amount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement." } } }, "auth_ref": ["r37", "r38", "r372"] }, "us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"], "lang": { "en-us": { "role": { "terseLabel": "Adjustments to reconcile net loss to net cash used in operations", "label": "Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract]" } } }, "auth_ref": [] }, "qubt_AggregateOfferingPrice": { "xbrltype": "monetaryItemType", "nsuri":

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Excludes amount capitalized." } } }, "auth_ref": ["r404", "r414"] }, "us-gaap_AllowanceForNotesAndLoansReceivableCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AllowanceForNotesAndLoansReceivableCurrent", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/LoanReceivableDetails"], "lang": { "en-us": { "role": { "terseLabel": "Outstanding receivable", "label": "Financing Receivable, Allowance for Credit Loss, Current", "documentation": "Amount of allowance for credit loss on financing receivable, classified as current." } } }, "auth_ref": ["r158", "r236", "r275"] }, "dei_AmendmentDescription": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AmendmentDescription", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Amendment Description", "documentation": "Description of changes contained within amended document." } } }, "auth_ref": [] }, "dei_AmendmentFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AmendmentFlag", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Amendment Flag", "documentation": "Boolean flag that is true when the XBRL content amends previously-filed or accepted submission." } } }, "auth_ref": [] }, "us-gaap_AmortizationOfDebtDiscountPremium": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AmortizationOfDebtDiscountPremium", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Original issue discount", "label": "Amortization of Debt Discount (Premium)", "documentation": "Amount of noncash expense included in interest expense to amortize debt discount and premium associated with the related debt instruments. Excludes amortization of financing costs. 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As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method." } } }, "auth_ref": ["r6", "r290", "r297", "r698"] }, "dei_AnnualInformationForm": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AnnualInformationForm", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Annual Information Form", "documentation": "Boolean flag with value true on a form if it is an annual report containing an annual information form." } } }, "auth_ref": ["r768"] }, "us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofWeightedAverageCommonStockEquivalentsSecuritiesOutstandingEffectAntiDilutiveTable"], "lang": { "en-us": { "role": { "terseLabel": "Total potentially dilutive shares", "label": "Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount", "documentation": "Securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented." } } }, "auth_ref": ["r214"] }, "us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofWeightedAverageCommonStockEquivalentsSecuritiesOutstandingEffectAntiDilutiveTable"], "lang": { "en-us": { "role": { "label": "Antidilutive Securities [Axis]", "documentation": "Information by type of antidilutive security." } } }, "auth_ref": ["r20"] }, "us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofWeightedAverageCommonStockEquivalentsSecuritiesOutstandingEffectAntiDilutiveTable"], "lang": { "en-us": { "role": { "label": "Antidilutive Securities, Name [Domain]", "documentation": "Incremental common shares attributable to securities that were not included in diluted earnings per share (EPS) because to do so would increase EPS amounts or decrease loss per share amounts for the period presented." } } }, "auth_ref": ["r20"] }, "dei_ApproximateDateOfCommencementOfProposedSaleToThePublic": { "xbrltype": "dateOrAsapItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "ApproximateDateOfCommencementOfProposedSaleToThePublic", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Approximate Date of Commencement of Proposed Sale to Public", "documentation": "The approximate date of a

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These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r447"] }, "us-gaap_BusinessAcquisitionPercentageOfVotingInterestsAcquired": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessAcquisitionPercentageOfVotingInterestsAcquired", "presentation": ["http://www.quantumcomputinginc.com/role/LoanReceivableDetails"], "lang": { "en-us": { "role": { "terseLabel": "Acquire, percentage of AI firm", "label": "Business Acquisition, Percentage of Voting Interests Acquired", "documentation": "Percentage of voting equity interests acquired at the acquisition date in the business combination." } } }, "auth_ref": ["r40"] }, "us-gaap_BusinessCombinationsPolicy": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationsPolicy", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"], "lang": { "en-us": { "role": { "terseLabel": "Business Combinations and Valuation of Goodwill", "label": "Business Combinations Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for completed business combinations (purchase method, acquisition method or combination of entities under common control). This accounting policy may include a general discussion of the purchase method or acquisition method of accounting (including for example, the treatment accorded contingent consideration, the identification of assets and liabilities, the purchase price allocation process, how the fair values of acquired assets and liabilities are determined) and the entity's specific application thereof. An entity that acquires another entity in a leveraged buyout transaction generally discloses the accounting policy followed by the acquiring entity in determining the basis used to value its interest in the acquired entity, and the rationale for that accounting policy." } } }, "auth_ref": ["r92", "r93", "r94", "r95"] }, "dei_BusinessContactMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "BusinessContactMember", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Business Contact [Member]", "documentation": "Business contact for the entity" } } }, "auth_ref": ["r756", "r768"] }, "qubt_CapitalStockDetailsTable": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "CapitalStockDetailsTable", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "label": "Capital Stock (Details) [Table]" } } }, "auth_ref": [] }, "qubt_CapitalStockMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "CapitalStockMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Capital Stock [Member]", "label": "Capital Stock Member" } } }, "auth_ref": [] }, "us-gaap_CashAndCashEquivalentsAtCarryingValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashAndCashEquivalentsAtCarryingValue", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet", "http://www.quantumcomputinginc.com/role/NatureofTheOrganizationandBusinessDetails"], "lang": { "en-us": { "role": { "terseLabel": "Cash and cash equivalents", "label": "Cash and Cash Equivalents, at Carrying Value", "documentation": "Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." } } }, "auth_ref": ["r15", "r148", "r686"] }, "us-gaap_CashAndCashEquivalentsPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashAndCashEquivalentsPolicyTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"], "lang": { "en-us": { "role": { "terseLabel": "Cash and Cash Equivalents", "label": "Cash and Cash Equivalents, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for cash and cash equivalents, including the policy for determining which items are treated as cash equivalents. Other information that may be disclosed includes (1) the nature of any restrictions on the entity's use of its cash and cash equivalents, (2) whether the entity's cash and cash equivalents are insured or expose the entity to credit risk, (3) the classification of any negative balance accounts (overdrafts), and (4) the carrying basis of cash equivalents (for example, at cost) and whether the carrying amount of cash equivalents approximates fair value." } } }, "auth_ref": ["r16"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"], "lang": { "en-us": { "role": { "periodStartLabel": "Cash and cash equivalents, beginning of period", "periodEndLabel": "Cash and cash equivalents, end of period", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents", "documentation": "Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r15", "r75", "r177"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseExcludingExchangeRateEffect": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseExcludingExchangeRateEffect", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"], "lang": { "en-us": { "role": { "totalLabel": "Net increase in cash", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Excluding Exchange Rate Effect", "documentation": "Amount of increase (decrease) in cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; excluding effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r2", "r75"] }, "us-gaap_CashEquivalentsAtCarryingValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashEquivalentsAtCarryingValue", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/SignificantAccountingPoliciesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Cash and cash equivalent", "label": "Cash Equivalents, at Carrying Value", "documentation": "Amount of short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." } } }, "auth_ref": ["r882", "r1024"] }, "ecd_ChangedPeerGroupFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChangedPeerGroupFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Changed Peer Group, Footnote [Text Block]", "terseLabel": "Changed Peer Group, Footnote" } } }, "auth_ref": ["r809"] }, "ecd_ChngInFrValAsOfVstngDtOfPrrYrEqtyAwrdsVstdInCvrdYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValAsOfVstngDtOfPrrYrEqtyAwrdsVstdInCvrdYrMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member]", "terseLabel": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year" } } }, "auth_ref": ["r806"] }, "ecd_ChngInFrValOfOutsdngAndUnvstdEqtyAwrdsGrntdInPrrYrsMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValOfOutsdngAndUnvstdEqtyAwrdsGrntdInPrrYrsMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested [Member]", "terseLabel": "Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested" } } }, "auth_ref": ["r804"] }, "dei_CityAreaCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CityAreaCode", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "City Area Code", "documentation": "Area code of city" } } }, "auth_ref": [] }, "us-gaap_ClassOfStockDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfStockDomain", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails", "http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "label": "Class of Stock [Domain]", "documentation": "Share of stock differentiated by the voting rights the holder receives. Examples include, but are not limited to, common stock, redeemable preferred stock, nonredeemable preferred stock, and convertible stock." } } }, "auth_ref": ["r131", "r155", "r156", "r157", "r179", "r203", "r204", "r211", "r213", "r221", "r222", "r270", "r317", "r319", "r320", "r321", "r324", "r325", "r345", "r346", "r349", "r350", "r352", "r470", "r585", "r586", "r587", "r588", "r594", "r595", "r596", "r597", "r598", "r599", "r600", "r601", "r602", "r603", "r604", "r605", "r617", "r638", "r658", "r677", "r678", "r679", "r680", "r681", "r683", "r889", "r899"] }, "us-gaap_ClassOfStockLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfStockLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "label": "Capital Stock [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r155", "r156", "r157", "r221", "r345", "r346", "r348", "r349", "r350", "r351", "r352", "r585", "r586", "r587", "r588", "r705", "r863", "r889"] }, "qubt_ClassOfWarrantOrRighExpirationDate": {

"xbrltype": "dateItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ClassOfWarrantOrRightExpirationDate", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofWarrantsOutstandingTable"], "lang": { "en-us": { "role": { "terseLabel": "Expiration Date", "documentation": "Expiration date of warrants or rights.", "label": "Class Of Warrant Or Right Expiration Date" } } }, "auth_ref": [] }, "us-gaap_ClassOfWarrantOrRightAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightAxis", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/ScheduleofWarrantsOutstandingTable"], "lang": { "en-us": { "role": { "label": "Class of Warrant or Right [Axis]", "documentation": "Information by type of warrant or right issued." } } }, "auth_ref": ["r30"] }, "us-gaap_ClassOfWarrantOrRightDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightDomain", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails"], "lang": { "en-us": { "role": { "label": "Class of Warrant or Right [Domain]", "documentation": "Name of the class or type of warrant or right outstanding. Warrants and rights represent derivative securities that give the holder the right to purchase securities (usually equity) from the issuer at a specific price within a certain time frame. Warrants are often included in a new debt issue to entice investors by a higher return potential. The main difference between warrants and call options is that warrants are issued and guaranteed by the company, whereas options are exchange instruments and are not issued by the company. Also, the lifetime of a warrant is often measured in years, while the lifetime of a typical option is measured in months." } } }, "auth_ref": [] }, "us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/ScheduleofWarrantsOutstandingTable"], "lang": { "en-us": { "role": { "terseLabel": "Exercise Price (in Dollars per share)", "verboseLabel": "Exercise price per share (in Dollars per share)", "netLabel": "Exercise price (in Dollars per share)", "label": "Class of Warrant or Right, Exercise Price of Warrants or Rights", "documentation": "Exercise price per share or per unit of warrants or rights outstanding." } } }, "auth_ref": ["r353"] }, "us-gaap_ClassOfWarrantOrRightLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofWarrantsOutstandingTable"], "lang": { "en-us": { "role": { "label": "Schedule of Warrants Outstanding [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Warrants to purchase shares", "verboseLabel": "Purchase of warrants", "label": "Class of Warrant or Right, Number of Securities Called by Warrants or Rights", "documentation": "Number of securities into which the class of warrant or right may be converted. For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares." } } }, "auth_ref": ["r353"] }, "us-gaap_ClassOfWarrantOrRightOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightOutstanding", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ScheduleofWarrantsOutstandingTable"], "lang": { "en-us": { "role": { "terseLabel": "Warrants Outstanding", "verboseLabel": "Issuance of warrant", "label": "Class of Warrant or Right, Outstanding", "documentation": "Number of warrants or rights outstanding." } } }, "auth_ref": [] }, "us-gaap_ClassOfWarrantOrRightTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightTable", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofWarrantsOutstandingTable"], "lang": { "en-us": { "role": { "label": "Class of Warrant or Right [Table]", "documentation": "Disclosure of information about warrant or right issued that give holder right to purchase security from issuer at specific price within certain time frame." } } }, "auth_ref": ["r30"] }, "ecd_CoSelectedMeasureAmt": { "xbrltype": "decimalItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CoSelectedMeasureAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Company Selected Measure Amount", "terseLabel": "Company Selected Measure Amount" } } }, "auth_ref": ["r810"] }, "ecd_CoSelectedMeasureName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CoSelectedMeasureName", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "label": "Company Selected Measure Name", "terseLabel": "Company Selected Measure Name" } } }, "auth_ref": ["r810"] }, "us-gaap_CommercialPaperAverageOutstanding": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommercialPaperAverageOutstanding", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Outstanding balance", "label": "Commercial Paper, Average Outstanding", "documentation": "Average amount outstanding of commercial paper." } } }, "auth_ref": ["r131", "r132"] }, "us-gaap_CommitmentsAndContingencies": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingencies", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "terseLabel": "Contingencies (see Note 10)", "label": "Commitments and Contingencies", "documentation": "Represents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur." } } }, "auth_ref": ["r53", "r105", "r551", "r616"] }, "us-gaap_CommitmentsAndContingenciesDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingenciesDisclosureAbstract", "lang": { "en-us": { "role": { "label": "Contingencies [Abstract]" } } }, "auth_ref": [] }, "us-gaap_CommonStockCapitalSharesReservedForFutureIssuance": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockCapitalSharesReservedForFutureIssuance", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Reserves increased shares", "label": "Common Stock, Capital Shares Reserved for Future Issuance", "documentation": "Aggregate number of common shares reserved for future issuance." } } }, "auth_ref": ["r57"] }, "us-gaap_CommonStockExceedingPercentage": { "xbrltype": "percentItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "CommonStockExceedingPercentage", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Common Stock exceeding percentage", "documentation": "Common stock exceeding percentage." }, "label": "Common Stock Exceeding Percentage" } } }, "auth_ref": [] }, "us-gaap_CommonStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3", "http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Common Stock", "verboseLabel": "Common Stock [Member]", "netLabel": "Series A Convertible Preferred Stock [Member]", "label": "Common Stock [Member]", "documentation": "Stock that is subordinate to all other stock of the issuer." } } }, "auth_ref": ["r730", "r731", "r732", "r734", "r735", "r736", "r737", "r893", "r894", "r898", "r986", "r1055", "r1057"] }, "us-gaap_CommonStockParOrStatedValuePerShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockParOrStatedValuePerShare", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/NatureoftheOrganizationandBusinessDetails"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, par value (in Dollars per share)", "label": "Common Stock, Par or Stated Value Per Share", "documentation": "Face amount or stated value per share of common stock." } } }, "auth_ref": ["r57"] }, "us-gaap_CommonStockSharesAuthorized": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesAuthorized", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/CommonStockSharesIssued", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, shares issued", "verboseLabel": "Common stock shares issued", "label": "Common Stock, Shares, Issued", "documentation": "Total number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury." } } }, "auth_ref": ["r57"] }, "us-gaap_CommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesOutstanding", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, shares outstanding", "verboseLabel": "Common stock shares outstanding", "label": "Common Stock, Shares, Outstanding", "documentation": "Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation." } } }, "auth_ref": ["r8", "r57", "r617", "r635", "r1057", "r1058"] }, "us-gaap_CommonStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockValue", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": {

"parentTag": {"us-gaap_StockholdersEquity", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"] , "lang": { "en-us": { "role": { "terseLabel": "Common stock, \$0.0001 par value, 250,000 thousand shares authorized: 94,416 thousand and 77,451 thousand shares issued and outstanding as of September 30, 2024 and December 31, 2023, respectively", "label": "Common Stock, Value, Issued", "documentation": "Aggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r57", "r553", "r725"] }, "ecd_CompActuallyPaidVsCoSelectedMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsCoSelectedMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"] , "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Company Selected Measure [Text Block]", "terseLabel": "Compensation Actually Paid vs. Company Selected Measure" } } }, "auth_ref": ["r815"] }, "ecd_CompActuallyPaidVsNetIncomeTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsNetIncomeTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"] , "lang": { "en-us": { "role": { "label": "Compensation Actually Paid vs. Net Income [Text 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Noncash is defined as transactions during a period that do not result in cash receipts or cash payments in the period. 'Part noncash' refers to that portion of the transaction not resulting in cash receipts or cash payments in the period." } } }, "auth_ref": ["r17", "r18", "r19"] }, "us-gaap_ConversionOfStockSharesIssued1": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConversionOfStockSharesIssued1", "presentation": ["http://www.quantumcomputinginc.com/role/ContingenciesDetails"] , "lang": { "en-us": { "role": { "terseLabel": "Conversion shares", "label": "Conversion of Stock, Shares Issued", "documentation": "The number of new shares issued in the conversion of stock in a noncash (or part noncash) transaction. Noncash is defined as transactions during a period that do not result in cash receipts or cash payments in the period. 'Part noncash' refers to that portion of the transaction not resulting in cash receipts or cash payments in the period." } } }, "auth_ref": ["r17", "r18", "r19"] }, "us-gaap_ConvertibleDebt": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConvertibleDebt", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"] , "lang": { "en-us": { "role": { "terseLabel": "Cash for streeterville convertible note", "label": "Convertible Debt", "documentation": "Including the current and noncurrent portions, carrying amount of debt identified as being convertible into another form of financial instrument (typically the entity's common stock) as of the balance sheet date, which originally required full repayment more than twelve months after issuance or greater than the normal operating cycle of the company." } } }, "auth_ref": ["r12", "r104", "r1023"] }, "qubt_CorporateHistoryMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "CorporateHistoryMember", "presentation": ["http://www.quantumcomputinginc.com/role/NatureoftheOrganizationandBusinessDetails"] , "lang": { "en-us": { "role": { "terseLabel": "Corporate History [Member]", "label": "Corporate History Member" } } }, "auth_ref": [] }, "us-gaap_CostOfRevenue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CostOfRevenue", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement": { "parentTag": "us-gaap_GrossProfit", "weight": -1.0, "order": 2.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement"] , "lang": { "en-us": { "role": { "terseLabel": "Cost of revenue", "label": "Cost of Revenue", "documentation": "The aggregate cost of goods produced and sold and services rendered during the reporting period." } } }, "auth_ref": ["r65", "r179", "r270", "r317", "r318", "r319", "r320", "r321", "r322", "r323", "r324", "r325", "r470", "r693", "r946"] }, "dei_CountryRegion": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CountryRegion", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"] , "lang": { "en-us": { "role": { "label": "Country Region", "documentation": "Region code of country" } } }, "auth_ref": [] }, "dei_CoverAbstract": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CoverAbstract", "lang": { "en-us": { "role": { "label": "Cover [Abstract]", "documentation": "Cover page." } } }, "auth_ref": [] }, "dei_CurrentFiscalYearEndDate": { "xbrltype": "gMonthDayItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CurrentFiscalYearEndDate", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"] , "lang": { "en-us": { "role": { "label": "Current Fiscal Year End Date", "documentation": "End date of current fiscal year in the format --MM-DD." } } }, "auth_ref": [] }, "qubt_CustomerMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "CustomerMember", "presentation": ["http://www.quantumcomputinginc.com/role/SignificantAccountingPoliciesDetails"] , "lang": { "en-us": { "role": { "terseLabel": "Customer [Member]", "label": "Customer Member" } } }, "auth_ref": [] }, "us-gaap_DebtConversionConvertedInstrumentRate": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtConversionConvertedInstrumentRate", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"] , "lang": { "en-us": { "role": { "terseLabel": "Conversion price equal rate", "label": "Debt Conversion, Converted Instrument, Rate", "documentation": "Dividend or interest rate associated with the financial instrument issued in exchange for the original debt being converted in a noncash or part noncash transaction. Noncash are transactions that affect recognized assets or liabilities but that do not result in cash receipts or cash payments. Part noncash refers to that portion of the transaction not resulting in cash receipts or cash payments." } } }, "auth_ref": ["r17", "r19"] }, "us-gaap_DebtConversionConvertedInstrumentWarrantsOrOptionsIssued1": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtConversionConvertedInstrumentWarrantsOrOptionsIssued1": {

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'Part noncash' refers to that portion of the transaction not resulting in cash receipts or cash payments in the period." } }, "auth_ref": ["r17", "r19"] }, "us-gaap_DebtInstrumentAnnualPrincipalPayment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentAnnualPrincipalPayment", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Initial principal amount", "label": "Debt Instrument, Annual Principal Payment", "documentation": "Amount of annual principal payment for debt instrument." } }, "auth_ref": ["r12"] }, "us-gaap_DebtInstrumentAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentAxis", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails", "http://www.quantumcomputinginc.com/role/LoanReceivableDetails", "http://www.quantumcomputinginc.com/role/ScheduleofOutstandingPromissoryNotesPayabletoFinancialLiabilitiesTable"], "lang": { "en-us": { "role": { "label": "Debt Instrument [Axis]", "documentation": "Information by type of debt instrument, including, but not limited to, draws against credit facilities." } }, "auth_ref": ["r12", "r47", "r48", "r101", "r104", "r181", "r326", "r327", "r328", "r329", "r330", "r331", "r332", "r333", "r334", "r335", "r336", "r337", "r338", "r339", "r340", "r341", "r700", "r701", "r702", "r703", "r704", "r723", "r890", "r939", "r940", "r941", "r1005", "r1007"] }, "us-gaap_DebtInstrumentConvertibleThresholdPercentageOfStockPriceTrigger": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentConvertibleThresholdPercentageOfStockPriceTrigger", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Aggregate sales of Conversion percentage", "label": "Debt Instrument, Convertible, Threshold Percentage of Stock Price Trigger", "documentation": "Minimum percentage of common stock price to conversion price of convertible debt instruments to determine eligibility of conversion." } }, "auth_ref": [] }, "us-gaap_DebtInstrumentInterestRateEffectivePercentage": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentInterestRateEffectivePercentage", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails", "http://www.quantumcomputinginc.com/role/LoanReceivableDetails"], "lang": { "en-us": { "role": { "terseLabel": "Interest percentage", "verboseLabel": "Annual interest rate", "label": "Debt Instrument, Interest Rate, Effective Percentage", "documentation": "Effective interest rate for the funds borrowed under the debt agreement considering interest compounding and original issue discount or premium." } }, "auth_ref": ["r50", "r344", "r479", "r480", "r723"] }, "us-gaap_DebtInstrumentIssuedPrincipal": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentIssuedPrincipal", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/LoanReceivableDetails", "http://www.quantumcomputinginc.com/role/ScheduleofOutstandingPromissoryNotesPayabletoFinancialLiabilitiesTable"], "lang": { "en-us": { "role": { "terseLabel": "Remaining loan balances", "verboseLabel": "Aggregate principal amount", "label": "Debt Instrument, Issued, Principal", "documentation": "Amount of principal of debt issued." } }, "auth_ref": ["r585"] }, "us-gaap_DebtInstrumentLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "label": "Financial Liabilities [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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The date of submission, date of acceptance by the recipient, and the document effective date are all potentially different." } } }, "auth_ref": [] }, "dei_DocumentDescription": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentDescription", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Document Description", "documentation": "The description of the document." } } }, "auth_ref": [] }, "dei_DocumentDomain": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentDomain", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Document [Domain]", "documentation": "Type of the document as assigned by the filer, corresponding to SEC document naming convention standards." } } }, "auth_ref": [] }, "dei_DocumentEffectiveDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentEffectiveDate", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Document Effective Date", "documentation": "The date when a document, upon receipt and acceptance, becomes officially effective, in YYYY-MM-DD format. 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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r298", "r684", "r698"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOffFiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOffFiscalYear", "crdr": "debit", "calculation": ["http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable": { "parentTag": "us-gaap_FiniteLivedIntangibleAssetsNet", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable"], "lang": { "en-us": { "role": { "terseLabel": "2024 (remaining three months)", "label": "Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year." } } }, "auth_ref": ["r1060"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFive": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearFive", "crdr": "debit", "calculation": ["http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable": { "parentTag": "us-gaap_FiniteLivedIntangibleAssetsNet", "weight": 1.0, "order": 6.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable"], "lang": { "en-us": { "role": { "terseLabel": "Thereafter", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Five", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r298", "r684", "r698"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearFour", "crdr": "debit", "calculation": ["http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable": { "parentTag": "us-gaap_FiniteLivedIntangibleAssetsNet", "weight": 1.0, "order": 5.0 } }, "presentation": []

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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r298", "r684", "r698"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearThree", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable": { "parentTag": "us-gaap_FiniteLivedIntangibleAssetsNet", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable"], "lang": { "en-us": { "role": { "terseLabel": "2027", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Three", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r298", "r684", "r698"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable": { "parentTag": "us-gaap_FiniteLivedIntangibleAssetsNet", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofFutureAmortizationExpenseTable"], "lang": { "en-us": { "role": { "terseLabel": "2026", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Two", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r298", "r684", "r698"] }, "us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsByMajorClassAxis", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofAmountsRelatedtoIntangibleAssetsTable"], "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Assets by Major Class [Axis]", "documentation": "Information by major type or class of finite-lived intangible assets." } } }, "auth_ref": ["r289", "r291", "r292", "r293", "r295", "r296", "r299", "r300", "r541", "r542", "r684"] }, "us-gaap_FiniteLivedIntangibleAssetsFutureAmortizationExpenseAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsFutureAmortizationExpenseAbstract", "lang": { "en-us": { "role": { "label": "Schedule of Future Amortization Expense [Abstract]" } } }, "auth_ref": [] }, "us-gaap_FiniteLivedIntangibleAssetsGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsGross", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofAmountsRelatedtoIntangibleAssetsTable"], "lang": { "en-us": { "role": { "terseLabel": "Gross Carrying Amount", "label": "Finite-Lived Intangible Assets, Gross", "documentation": "Amount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life." } } }, "auth_ref": ["r287", "r296", "r542", "r698"] }, "us-gaap_FiniteLivedIntangibleAssetsLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofAmountsRelatedtoIntangibleAssetsTable"], "lang": { "en-us": { "role": { "label": "Schedule of Amounts Related to Intangible Assets [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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Examples include, but are not limited to, desks, chairs, tables, and bookcases." } } }, "auth_ref": [] }, "us-gaap_GainLossOnInvestments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GainLossOnInvestments", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": -1.0, "order": 11.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"], "lang": { "en-us": { "role": { "negatedLabel": "Other recognized losses (gains)", "label": "Gain (Loss) on Investments", "documentation": "Amount of realized and unrealized gain (loss) on investment." } } }, "auth_ref": ["r69", "r71", "r862"] }, "us-gaap_GeneralAndAdministrativeExpenseMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GeneralAndAdministrativeExpenseMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSharesofCon", "lang": { "en-us": { "role": { "terseLabel": "General and administrative [Member]", "label": "General and Administrative Expense [Member]", "documentation": "Primary financial statement caption encompassing general and administrative expense." } } }, "auth_ref": ["r67"] }, "us-gaap_Goodwill": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Goodwill", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet", "http://www.quantumcomputinginc.com/role/IntangibleAssetsandGoodwillDetails"], "lang": { "en-us": { "role": { "terseLabel": "Goodwill", "label":

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"auth_ref": ["r151", "r288", "r543", "r694", "r697", "r713", "r725", "r924", "r925"] }, "us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillAndIntangibleAssetsDisclosureAbstract", "lang": { "en-us": { "role": { "label": "Intangible Assets and Goodwill [Abstract]" } } }, "auth_ref": [] }, "us-gaap_GoodwillAndIntangibleAssetsDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillAndIntangibleAssetsDisclosureTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/IntangibleAssetsandGoodwill"] }, "lang": { "en-us": { "role": { "terseLabel": "Intangible Assets and Goodwill", "label": "Goodwill and Intangible Assets Disclosure [Text Block]" }, "documentation": "The entire disclosure for goodwill and intangible assets." } } }, "auth_ref": ["r923", "r926"] }

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An entity also may disclose its accounting policy for long-lived assets to be sold. This policy excludes goodwill and intangible assets." } } }, "auth_ref": ["r0", "r83"] }, "us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement": { "parentTag": "us-gaap_NetIncomeLoss", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement"] }, "lang": { "en-us": { "role": { "totalLabel": "Loss before income tax provision", "label": "Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest", "documentation": "Amount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest." } } }, "auth_ref": ["r64", "r108", "r113", "r546", "r561", "r692", "r693", "r901", "r902", "r903", "r904", "r905"] }, "us-gaap_IncomeStatementAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeStatementAbstract", "lang": { "en-us": { "role": { "label": "Income Statement [Abstract]" } } }, "auth_ref": [] }, "us-gaap_IncomeStatementLocationAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeStatementLocationAxis", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSharesofCon", "http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseforServicesExpensesforBothSharesIssuedandStockOptions", "lang": { "en-us": { "role": { "label": "Statement of Income Location, Balance [Axis]", "documentation": "Information by location in statement of income where disaggregated amount has been reported." } } }, "auth_ref": ["r303", "r304", "r305", "r466", "r467", "r468", "r568", "r570", "r643", "r684", "r715", "r1027"] }, "us-gaap_IncomeStatementLocationDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncomeStatementLocationDomain", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSharesofCon", "http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseforServicesExpensesforBothSharesIssuedandStockOptions", "lang": { "en-us": { "role": { "label": "Statement of Income Location, Balance [Domain]", "documentation": "Location in statement of income where disaggregated amount has been reported." } } }, "auth_ref": ["r304", "r305", "r466", "r467", "r468", "r568", "r570", "r643", "r684", "r715", "r1027"] }, "us-gaap_IncomeTaxDisclosureAbstract": { "xbrltype": 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recognizing and measuring deferred tax assets and liabilities and related valuation allowances, recognizing investment tax credits, operating loss carryforwards, tax credit carryforwards, and other carryforwards, methodologies for determining its effective income tax rate and the characterization of interest and penalties in the financial statements." } } }, "auth_ref": ["r165", "r419", "r420", "r427", "r428", "r430", "r432", "r584"] }, "us-gaap_IncreaseDecreaseInAccountsPayable": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncreaseDecreaseInAccountsPayable", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 7.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"] }, "lang": { "en-us": { "role": { "terseLabel": "Accounts payable", "label": "Increase (Decrease) in 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year (or one business cycle) from customers for the credit sale of goods and services." } } }, "auth_ref": ["r5"] }, "us-gaap_IncreaseDecreaseInAccruedLiabilitiesAndOtherOperatingLiabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "IncreaseDecreaseInAccruedLiabilitiesAndOtherOperatingLiabilities", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 9.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"] }, "lang": { "en-us": { "role": { "terseLabel": "Accrued expenses and other current liabilities", "label": "Increase (Decrease) in Accrued Liabilities and Other Operating Liabilities", "documentation": "Amount of increase (decrease) in accrued expenses, and obligations classified as other." } } }, "auth_ref": ["r887"] }, 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Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount." } } }, "auth_ref": ["r173", "r175", "r176"] }, "us-gaap_InventoryNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryNet", "crdr": "debit", "calculation": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet", "lang": { "en-us": { "role": { "terseLabel": "Inventory", "label": "Inventory, Net", "documentation": "Amount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer." } } }, "auth_ref": ["r160", "r687", "r725"] }, "us-gaap_InventoryPolicyTextBlock": { "xbrltype": "textBlockItemType", 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Includes, but is not limited to, interest expense for finance lease, amortization of right-of-use asset for finance lease, operating lease cost, short-term lease cost, variable lease cost and sublease income." } } }, "auth_ref": ["r1008"] }, "us-gaap_LeaseholdImprovementsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LeaseholdImprovementsMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable"], "lang": { "en-us": { "role": { "terseLabel": "Leasehold Improvements [Member]", "label": "Leasehold Improvements [Member]", "documentation": "Additions or improvements to assets held under a lease arrangement." } } }, "auth_ref": ["r82", "r494"] }, "us-gaap_LeasesOperatingAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LeasesOperatingAbstract", "lang": { "en-us": { "role": { "label": "Operating Leases [Abstract]" } } }, "auth_ref": [] }, "dei_LegalEntityAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "LegalEntityAxis", "presentation": ["http://xbrl.sec.gov/dei/role/document/AuditInformation", "http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Legal Entity [Axis]", "documentation": "The set of legal entities associated with a report." } } }, "auth_ref": [] }, "dei_LegalEntityIdentifier": { "xbrltype": "legalEntityIdentifierItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "LegalEntityIdentifier", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Legal Entity Identifier", "documentation": "A globally unique ISO 17442 value to identify entities, commonly abbreviated as LEI." } } }, "auth_ref": ["r741"] }, "us-gaap_LesseeLeasesPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeLeasesPolicyTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"], "lang": { "en-us": { "role": { "terseLabel": "Operating Leases", "label": "Lessee, Leases [Policy Text Block]", "documentation": "Disclosure of accounting policy for leasing arrangement entered into by lessee." } } }, "auth_ref": ["r489"] }, "us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityMaturityTableTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/OperatingLeasesTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Undiscounted Future Minimum Lease Payments Under Operating Leases", "label": "Lessee, Operating Lease, Liability, to be Paid, Maturity [Table Text Block]", "documentation": "Tabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position." } } }, "auth_ref": ["r1009"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDue", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable"], "lang": { "en-us": { "role": { "totalLabel": "Total minimum payments", "label": "Lessee, Operating Lease, Liability, to be Paid", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease." } } }, "auth_ref": ["r493"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable"], "lang": { "en-us": { "role": { "terseLabel": "2025", "label": "Lessee, Operating Lease, Liability, to be Paid, Year One", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r493"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearFour", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable"], "lang": { "en-us": { "role": { "terseLabel": "2028", "label": "Lessee, Operating Lease, Liability, to be Paid, Year Four", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r493"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearThree", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable"], "lang": { "en-us": { "role": { "terseLabel": "2027", "label": "Lessee, Operating Lease, Liability, to be Paid, Year Three", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r493"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearTwo", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable"], "lang": { "en-us": { "role": { "terseLabel": "2026", "label": "Lessee, Operating Lease, Liability, to be Paid, Year Two", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r493"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOffiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsRemainderOffiscalYear", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable"], "lang": { "en-us": { "role": { "terseLabel": "2024 (remaining three months)", "label": "Lessee, Operating Lease, Liability, to be Paid, Remainder of Fiscal Year", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year." } } }, "auth_ref": ["r1009"] }, "us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityUndiscountedExcessAmount", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofUndiscountedFutureMinimumLeasePaymentsUnderOperatingLeasesTable"], "lang": { "en-us": { "role": { "negatedLabel": "Less: imputed interest", "label": "Lessee, Operating Lease, Liability, Undiscounted Excess Amount", "documentation": "Amount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease." } } }, "auth_ref": ["r493"] }, "us-gaap_LesseeOperatingLeasesTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeasesTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/OperatingLeases"], "lang": { "en-us": { "role": { "terseLabel": "Operating Leases", "label": "Lessee, Operating Leases [Text Block]", "documentation": "The entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability." } } }, "auth_ref": ["r484"] }, "us-gaap_Liabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Liabilities", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "totalLabel": "Total liabilities", "terseLabel": "Liabilities", "label": "Liabilities", "documentation": "Amount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others." } } }, "auth_ref": ["r12", "r47", "r48", "r49", "r51", "r52", "r53", "r54", "r179", "r270", "r317", "r318", "r319", "r320", "r322", "r323", "r324", "r325", "r451", "r452", "r453", "r470", "r615", "r691", "r740", "r946", "r1014", "r1015"] }, "us-gaap_LiabilitiesAndStockholdersEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesAndStockholdersEquity", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "totalLabel": "Total liabilities and mezzanine and stockholders equity", "label": "Liabilities and Equity", "documentation": "Amount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any." } } }, "auth_ref": ["r62", "r106", "r556", "r725", "r891", "r918", "r1004"] }, "us-gaap_LiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LiabilitiesCurrent", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_Liabilities", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "totalLabel": "Total current liabilities", "label": "Liabilities, Current", "documentation": "Total obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer." } } }, "auth_ref": ["r49", "r146", "r179", "r270", "r317", "r318", "r319", "r320", "r321", "r322", "r323", "r324", "r325", "r451", "r452", "r453", "r470", "r725", "r946", "r1014", "r1015"] }, "us-gaap_LiabilitiesCurrentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname":

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Examples include, but are not limited to, trade accounts receivables, notes receivables, loans receivables. Includes disclosure for allowance for credit losses." } } }, "auth_ref": ["r479", "r907"] }, "dei_LocalPhoneNumber": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "LocalPhoneNumber", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Local Phone Number", "documentation": "Local phone number for entity." } } }, "auth_ref": [] }, "us-gaap_LossContingenciesLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingenciesLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/ContingenciesDetails"], "lang": { "en-us": { "role": { "label": "Contingencies [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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Describes any existing condition, situation, or set of circumstances involving uncertainty as of the balance sheet date (or prior to issuance of the financial statements) as to a probable or reasonably possible loss incurred by an entity that will ultimately be resolved when one or more future events occur or fail to occur, and typically discloses the amount of loss recorded or a range of possible loss, or an assertion that no reasonable estimate can be made." } } }, "auth_ref": ["r306", "r307", "r308", "r310", "r312", "r313", "r314", "r315", "r415"] }, "qubt_MWAgreementMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "MWAgreementMember", "presentation": ["http://www.quantumcomputinginc.com/role/LoanReceivableDetails"], "lang": { "en-us": { "role": { "terseLabel": "MW Agreement [Member]", "label": "MW Agreement Member" } } }, "auth_ref": [] }, "qubt_MWNoteMember": { "xbrltype": "domainItemType", "nsuri": 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For an entity that has not commenced principal operations, disclosures about the risks and uncertainties related to the activities in which the entity is currently engaged and an understanding of what those activities are being directed toward." } } }, "auth_ref": ["r120", "r129"] }, "qubt_NatureoftheOrganizationandBusinessDetailsTable": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "NatureoftheOrganizationandBusinessDetailsTable", "presentation": ["http://www.quantumcomputinginc.com/role/NatureoftheOrganizationandBusinessDetails"], "lang": { "en-us": { "role": { "label": "Nature of the Organization and Business (Details) [Table]" } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInFinancingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivities", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseExcludingExchangeRateEffect", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"], "lang": { "en-us": { "role": { "totalLabel": "Net cash provided by financing activities", "label": "Net Cash Provided by (Used in) Financing Activities", "documentation": "Amount of cash inflow (outflow) from financing activities, including discontinued operations. 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"Amendment number to registration statement under the Securities Act of 1933 after the registration becomes effective." } } }, "auth_ref": ["r742"] }, "dei_PreCommencementIssuerTenderOffer": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "PreCommencementIssuerTenderOffer", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Pre-commencement Issuer Tender Offer", "documentation": "Boolean flag that is true when the Form 8-K filing is intended to satisfy the filing obligation of the registrant as pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act." } } }, "auth_ref": ["r749"] }, "dei_PreCommencementTenderOffer": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "PreCommencementTenderOffer", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"], "lang": { "en-us": { "role": { "label": "Pre-commencement Tender Offer", 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Classified within stockholders' equity if nonredeemable or redeemable solely at the option of the issuer. Classified within temporary equity if redemption is outside the control of the issuer." } } }, "auth_ref": [] }, "us-gaap_PreferredStockConvertibleConversionPrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockConvertibleConversionPrice", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "label": "Conversion price per share (in Dollars per share)", "documentation": "Per share conversion price of preferred stock." } } }, "auth_ref": ["r347"] }, "us-gaap_PreferredStockDividendRatePercentage": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockDividendRatePercentage", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "label": "Preferred dividends percentage", "documentation": "The percentage rate used to calculate dividend payments on preferred stock." } } }, "auth_ref": ["r346", "r665", "r667", "r668", "r676"] }, "us-gaap_PreferredStockDividendsIncomeStatementImpact": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockDividendsIncomeStatementImpact", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement"], "lang": { "en-us": { "role": { "label": "Preferred stock, Dividend Rate, Percentage", "documentation": "The amount of preferred stock dividends that is an adjustment to net income apportioned to common stockholders." } } }, "auth_ref": [] }, "us-gaap_PreferredStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "label": "Series A Preferred Stock", "documentation": "Preferred shares may provide a preferential dividend to the dividend on common stock and may take precedence over common stock in the event of a liquidation. Preferred shares typically represent an ownership interest in the company." } } }, "auth_ref": ["r730", "r731", "r734", "r735", "r736", "r737", "r1055", "r1057"] }, "us-gaap_PreferredStockParOrStatedValuePerShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockParOrStatedValuePerShare", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals"], "lang": { "en-us": { "role": { "label": "Preferred stock, par value (in Dollars per share)", "documentation": "Face amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer." } } }, "auth_ref": ["r56", "r345"] }, "us-gaap_PreferredStockRedemptionAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockRedemptionAmount", "presentation": ["http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "label": "Preferred stock, redemption amount (in Dollars)", "documentation": "The redemption (or callable) amount of currently redeemable preferred stock. Includes amounts representing dividends not currently declared or paid but which will be payable under the redemption features or for which ultimate payment is solely within the control of the issuer." } } }, "auth_ref": ["r28", "r55"] }, "us-gaap_PreferredStockSharesAuthorized": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesAuthorized", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals"], "lang": { "en-us": { "role": { "label": "Preferred stock, shares authorized", "documentation": "The maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws." } } }, "auth_ref": ["r56", "r617"] }, "us-gaap_PreferredStockSharesIssued": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesIssued", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals"], "lang": { "en-us": { "role": { "label": "Preferred stock, shares issued", "documentation": "Number of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt." } } }, "auth_ref": ["r56", "r345"] }, "us-gaap_PreferredStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesOutstanding", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals"], "lang": { "en-us": { "role": { "label": "Preferred stock, shares outstanding", "documentation": "Aggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased." } } }, "auth_ref": ["r56", "r617", "r635", "r1057", "r1058"] }, "us-gaap_PreferredStockTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStock"], "lang": { "en-us": { "role": { "label": "Capital Stock", "documentation": "The entire disclosure for terms, amounts, nature of changes, rights and privileges, dividends, and other matters related to preferred stock." } } }, "auth_ref": ["r85"] }, "us-gaap_PreferredStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockValue", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "label": "Preferred stock value", "documentation": "The value of preferred stock." } } }, "auth_ref": [] }, "us-gaap_StockholdersEquity": { "xbrltype": "equityItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquity", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "label": "Shareholders' equity", "documentation": "The total amount of equity reported on the balance sheet, consisting of common stock, preferred stock, and other equity components." } } }, "auth_ref": [] }

"weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "terseLabel": "Preferred stock, \$0.0001 par value, 1,550 shares Series A Preferred authorized; 993 thousand and 1,490 thousand shares issued and outstanding as of September 30, 2024 and December 31, 2023, respectively; 3,080 thousand shares of Series B Preferred Stock authorized; no shares issued and outstanding as of September 30, 2024 and December 31, 2023", "label": "Preferred Stock, Value, Issued", "documentation": "Aggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r56", "r552", "r725"] }, "qubt_PreferredWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "PreferredWarrantsMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Preferred Warrants [Member]", "label": "Preferred Warrants Member" } } }, "auth_ref": [] }, "us-gaap_PrepaidExpenseAndOtherAssetsCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PrepaidExpenseAndOtherAssetsCurrent", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "terseLabel": "Prepaid expenses and other current assets", "label": "Prepaid Expense and Other Assets, Current", "documentation": "Amount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer." } } }, "auth_ref": ["r885"] }, "us-gaap_PriorPeriodAdjustmentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PriorPeriodAdjustmentAbstract", "lang": { "en-us": { "role": { "label": "Restatement of Previously Issued Financial Statements [Abstract]" } } }, "auth_ref": [] }, "us-gaap_PriorPeriodReclassificationAdjustmentDescription": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PriorPeriodReclassificationAdjustmentDescription", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"], "lang": { "en-us": { "role": { "terseLabel": "Reclassifications", "label": "Reclassification, Comparability Adjustment [Policy Text Block]", "documentation": "Disclosure of accounting policy for reclassification affecting comparability of financial statement. Excludes amendment to accounting standards, other change in accounting principle, and correction of error." } } }, "auth_ref": ["r881"] }, "us-gaap_ProceedsFromDebtNetOfIssuanceCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromDebtNetOfIssuanceCosts", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Net proceeds (in Dollars)", "label": "Proceeds from Debt, Net of Issuance Costs", "documentation": "The cash inflow from additional borrowings, net of cash paid to third parties in connection with debt origination." } } }, "auth_ref": ["r172"] }, "us-gaap_ProceedsFromFeesReceived": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromFeesReceived", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Received fee", "label": "Proceeds from Fees Received", "documentation": "Cash received for fees during the current period. This element excludes cash proceeds from license fees." } } }, "auth_ref": ["r77"] }, "us-gaap_ProceedsFromIssuanceOfCommonStock": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOfCommonStock", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"], "lang": { "en-us": { "role": { "terseLabel": "Proceeds from stock issuance related to ATM facility", "label": "Proceeds from Issuance of Common Stock", "documentation": "The cash inflow from the additional capital contribution to the entity." } } }, "auth_ref": ["r3"] }, "us-gaap_ProceedsFromIssuanceOfWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOfWarrants", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Aggregate purchase price (in Dollars)", "label": "Proceeds from Issuance of Warrants", "documentation": "The cash inflow from issuance of rights to purchase common shares at predetermined price (usually issued together with corporate debt)." } } }, "auth_ref": ["r3"] }, "us-gaap_ProceedsFromIssuanceOrSaleOfEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOrSaleOfEquity", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Sales of equity (in Dollars)", "label": "Proceeds from Issuance or Sale of Equity", "documentation": "The cash inflow from the issuance of common stock, preferred stock, treasury stock, stock options, and other types of equity." } } }, "auth_ref": ["r3", "r585"] }, "qubt_ProceedsRaisedFromFinancialLiabilitiesNetOfIssuanceCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ProceedsRaisedFromFinancialLiabilitiesNetOfIssuanceCosts", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"], "lang": { "en-us": { "role": { "terseLabel": "Proceeds raised from financial liabilities, net of issuance costs", "label": "Proceeds Raised From Financial Liabilities Net Of Issuance Costs" } } }, "auth_ref": [] }, "us-gaap_ProductWarrantyExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProductWarrantyExpense", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Warrants (in Dollars)", "label": "Product Warranty Expense", "documentation": "The expense charged against earnings for the period pertaining to standard and extended warranties on the entity's goods and services granted to customers." } } }, "auth_ref": ["r5", "r945"] }, "us-gaap_PropertyPlantAndEquipmentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentAbstract", "lang": { "en-us": { "role": { "label": "Property and Equipment [Abstract]" } } }, "auth_ref": [] }, "us-gaap_PropertyPlantAndEquipmentByTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentByTypeAxis", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable"], "lang": { "en-us": { "role": { "label": "Long-Lived Tangible Asset [Axis]", "documentation": "Information by type of long-lived, physical assets used to produce goods and services and not intended for resale." } } }, "auth_ref": ["r7", "r494"] }, "us-gaap_PropertyPlantAndEquipmentDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentDisclosureTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/PropertyandEquipment"], "lang": { "en-us": { "role": { "terseLabel": "Property and Equipment", "label": "Property, Plant and Equipment Disclosure [Text Block]", "documentation": "The entire disclosure for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections." } } }, "auth_ref": ["r81", "r123", "r126", "r127"] }, "us-gaap_PropertyPlantAndEquipmentGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentGross", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable": { "parentTag": "us-gaap_PropertyPlantAndEquipmentNet", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable"], "lang": { "en-us": { "role": { "terseLabel": "Total cost of property and equipment", "label": "Property, Plant and Equipment, Gross", "documentation": "Amount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r82", "r149", "r560"] }, "us-gaap_PropertyPlantAndEquipmentLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable"], "lang": { "en-us": { "role": { "label": "Property Plant and Equipment [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r494"] }, "us-gaap_PropertyPlantAndEquipmentNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentNet", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 2.0 }, "http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet", "http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable"], "lang": { "en-us": { "role": { "totalLabel": "Property and equipment, net", "terseLabel": "Property and equipment, net", "label": "Property, Plant and Equipment, Net", "documentation": "Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r7", "r494", "r547", "r560", "r725"] }, "us-gaap_PropertyPlantAndEquipmentPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentPolicyTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"], "lang": { "en-us": { "role": { "terseLabel": "Property and Equipment", "label": "Property, Plant and Equipment, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections." } } }, "auth_ref": ["r7", "r123", "r126", "r558"] }, "us-gaap_PropertyPlantAndEquipmentTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/PropertyandEquipmentTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Property and Equipment", "label": "Property, Plant and Equipment [Table Text Block]", "documentation": "Tabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated depreciation." } } }, "auth_ref": ["r7"] }, "us-

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Examples include land, buildings, machinery and equipment, and other types of furniture and equipment including, but not limited to, office equipment, furniture and fixtures, and computer equipment and software." } } }, "auth_ref": ["r82", "r494"] }, "us-gaap_PropertyPlantAndEquipmentUsefulLife": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentUsefulLife", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable"] }, "lang": { "en-us": { "role": { "terseLabel": "Estimated Useful Life", "label": "Property, Plant and Equipment, Useful Life", "documentation": "Useful life of long lived, physical assets used in the normal conduct of business and not intended for resale, in 'PnYnMnDnTnHnMnS' format, for example, 'PIY5M13D' represents the reported fact of one year, five months, and thirteen days. Examples include, but not limited to, land, buildings, machinery and equipment, office equipment, furniture and fixtures, and computer equipment." } } }, "auth_ref": [] }, "qubt_ProvisionForCreditLossesPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ProvisionForCreditLossesPolicyTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"] }, "lang": { "en-us": { "role": { "terseLabel": "Provision for Credit Losses", "documentation": "Disclosure of accounting policy for provision for credit losses." } } }, "label": "Provision For Credit Losses Policy Text Block" } } }, "auth_ref": [] }, "us-gaap_ProvisionForOtherCreditLosses": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProvisionForOtherCreditLosses", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/SignificantAccountingPoliciesDetails"] }, "lang": { "en-us": { "role": { "terseLabel": "Provision for credit losses", "label": "Provision for Other Credit Losses", "documentation": "Amount of expense related to credit loss from transactions other than loan and lease transactions." } } }, "auth_ref": ["r5", "r107"] }, "ecd_PvpTable": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PvpTable", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"] }, "lang": { "en-us": { "role": { "label": "Pay vs Performance Disclosure [Table]", "terseLabel": "Pay vs Performance Disclosure" } } }, "auth_ref": ["r799"] }, "ecd_PvpTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PvpTableTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"] }, "lang": { "en-us": { "role": { "label": "Pay vs Performance [Table Text Block]", "terseLabel": "Pay vs Performance Disclosure, Table" } } }, "auth_ref": ["r799"] }, "qubt_QPhotonMergerMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "QPhotonMergerMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"] }, "lang": { "en-us": { "role": { "terseLabel": "QPhoton Merger [Member]", "label": "QPhoton Merger Member" } } }, "auth_ref": [] }, "qubt_QPhotonWarrantsMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "QPhotonWarrantsMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"] }, "lang": { "en-us": { "role": { "terseLabel": "QPhoton Warrants [Member]", "label": "QPhoton Warrants Member" } } }, "auth_ref": [] }, "srt_RangeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeAxis", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails", "http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable", "http://www.quantumcomputinginc.com/role/ScheduleofGrantDateFairValueofStockOptionsGrantedTable"] }, "lang": { "en-us": { "role": { "label": "Statistical Measurement [Axis]", "documentation": "Information by statistical measurement. Includes, but is not limited to, minimum, maximum, weighted average, arithmetic average, and median." } } }, "auth_ref": ["r134", "r135", "r136", "r137", "r138", "r140", "r141", "r309", "r311", "r312", "r313", "r366", "r368", "r400", "r401", "r402", "r415", "r465", "r512", "r521", "r537", "r567", "r569", "r581", "r607", "r608", "r664", "r666", "r669", "r670", "r675", "r682", "r683", "r695", "r705", "r709", "r716", "r717", "r721", "r722", "r728", "r732", "r942", "r948", "r992", "r1017", "r1018", "r1019", "r1020", "r1021"] }, "srt_RangeMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails", "http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable", "http://www.quantumcomputinginc.com/role/ScheduleofGrantDateFairValueofStockOptionsGrantedTable"] }, "lang": { "en-us": { "role": { "label": "Statistical Measurement [Domain]", "documentation": "Statistical measurement. Includes, but is not limited to, minimum, maximum, weighted average, arithmetic average, and median." } } }, "auth_ref": ["r134", "r135", "r136", "r137", "r138", "r140", "r141", "r309", "r311", "r312", "r313", "r366", "r368", "r400", "r401", "r402", "r415", "r465", "r512", "r521", "r537", "r567", "r569", "r581", "r607", "r608", "r664", "r666", "r669", "r670", "r675", "r682", "r683", "r695", "r705", "r709", "r716", "r717", "r721", "r722", "r728", "r732", "r942", "r948", "r992", "r1017", "r1018", "r1019", "r1020", "r1021"] }, "qubt_RealizationOfStockBasedCompensationExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "RealizationOfStockBasedCompensationExpense", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"] }, "lang": { "en-us": { "role": { "terseLabel": "Realization of stock-based compensation expense (in Dollars)", "documentation": "Represent the amount of difference in stock-based compensation for services on the statement of stockholders' equity as compared to the statement of cash flows." } } }, "label": "Realization Of Stock Based Compensation Expense" } } }, "auth_ref": [] }, "us-gaap_ReceivablesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReceivablesAbstract", "lang": { "en-us": { "role": { "label": "Loan Receivable [Abstract]" } } }, "auth_ref": [] }, "qubt_ReclassificationOfSeriesAPreferredStockToMezzanineEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ReclassificationOfSeriesAPreferredStockToMezzanineEquity", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow"] }, "lang": { "en-us": { "role": { "terseLabel": "Reclassification of Series A preferred stock to mezzanine equity", "documentation": "Amount of reclassification of Series A preferred stock to mezzanine equity." } } }, "label": "Reclassification Of Series A Preferred Stock To Mezzanine Equity" } } }, "auth_ref": [] }, "us-gaap_ReclassificationsOfTemporaryToPermanentEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReclassificationsOfTemporaryToPermanentEquity", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"] }, "lang": { "en-us": { "role": { "terseLabel": "Reclassification of Series A preferred stock to mezzanine equity", "verboseLabel": "Reclassification of Series A preferred stock to mezzanine equity (in Dollars)", "label": "Reclassifications of Temporary to Permanent Equity", "documentation": "The difference between the carrying amount of a financial instrument subject to a registration payment arrangement recorded as temporary equity prior to adoption of FSP EITF 00-19-2 and the carrying amount reclassified to permanent equity upon the adoption of FSP EITF 00-19-2. Recorded as a cumulative effect adjustment to the beginning balance of retained earnings. Does not apply to registration payment arrangements that are no longer outstanding upon adoption of FSP EITF 00-19-2." } } }, "auth_ref": ["r84", "r97"] }, "ecd_RecoveryOfErrCompDisclosureLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RecoveryOfErrCompDisclosureLineItems", "lang": { "en-us": { "role": { "label": "Recovery of Erroneously Awarded Compensation Disclosure [Line Items]", "terseLabel": "Recovery of Erroneously Awarded Compensation Disclosure" } } }, "auth_ref": ["r758", "r769", "r785", "r820"] }, "dei_RegistrationStatementAmendmentNumber": { "xbrltype": "sequenceNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "RegistrationStatementAmendmentNumber", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"] }, "lang": { "en-us": { "role": { "label": "Registration Statement Amendment Number", "documentation": "Amendment number to registration statement under the Investment Company Act of 1940." } } }, "auth_ref": ["r742"] }, "us-gaap_RelatedPartyDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyDomain", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"] }, "lang": { "en-us": { "role": { "label": "Related and Nonrelated Parties [Domain]", "documentation": "Related and nonrelated parties. Related party includes, but is not limited to, affiliate, other entity for which investment is accounted for under equity method, trust for benefit of employee, principal owner, management, and member of immediate family, and other party that may be prevented from pursuing separate interests because of control, significant influence, or ownership interest." } } }, "auth_ref": ["r234", "r367", "r500", "r501", "r550", "r557", "r610", "r611", "r612", "r613", "r614", "r634", "r636", "r663"] }, "us-gaap_RelatedPartyTransactionsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyTransactionsAbstract", "lang": { "en-us": { "role": { "label": "Related Party Transactions [Abstract]" } } }, "auth_ref": [] }, "us-gaap_RelatedPartyTransactionsByRelatedPartyAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyTransactionsByRelatedPartyAxis", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"] }, "lang": { "en-us": { "role": { "label": "Related and Nonrelated Parties [Axis]", "documentation": "Information by related and nonrelated parties. Related party includes, but is not limited to, affiliate, other entity for which investment is accounted for under equity method, trust for benefit of employee, principal owner, management, and member of immediate family, and other party that may be prevented from pursuing separate interests because of control, significant influence, or ownership interest." } } }, "auth_ref": ["r234", "r367", "r500", "r501", "r550", "r557", "r610", "r611", "r612", "r613", "r614", "r634", "r636", "r663", "r1013"] }, "us-gaap_RelatedPartyTransactionsDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyTransactionsDisclosureTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/RelatedPartyTransactions"] }, "lang": { "en-us": { "role": { "terseLabel": "Related Party Transactions", "label": "Related Party Transactions Disclosure [Text Block]", "documentation": "The entire disclosure for related party transactions. Examples of related party transactions include transactions between (a) a parent company and its subsidiary; (b) subsidiaries of a common parent; (c) and entity and its principal owners; and (d) affiliates." } } }, "auth_ref": ["r497", "r498", "r499", "r501", "r502", "r591", "r592", "r593", "r641", "r642", "r643", "r661", "r662"] }, "us-gaap_ResearchAndDevelopmentExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpense", "crdr": "debit", "calculation": {

"http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement": { "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 1.0 }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement"], "lang": { "en-us": { "role": { "terseLabel": "Research and development", "label": "Research and Development Expense", "documentation": "Amount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity." } } }, "auth_ref": ["r417", "r684", "r693", "r1022"], "us-gaap_ResearchAndDevelopmentExpenseMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpenseMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSharesofCon", "lang": { "en-us": { "role": { "terseLabel": "Research and development [Member]", "label": "Research and Development Expense [Member]", "documentation": "Primary financial statement caption in which the reported facts about research and development expense have been included." } } }, "auth_ref": [] }, "us-gaap_ResearchAndDevelopmentExpensePolicy": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpensePolicy", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"], "lang": { "en-us": { "role": { "terseLabel": "Research and Development Costs", "label": "Research and Development Expense, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for costs it has incurred (1) in a planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service, a new process or technique, or in bringing about a significant improvement to an existing product or process; or (2) to translate research findings or other knowledge into a plan or design for a new product or process or for a significant improvement to an existing product or process." } } }, "auth_ref": ["r416"], "us-gaap_ResearchDevelopmentAndComputerSoftwarePolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchDevelopmentAndComputerSoftwarePolicyTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"], "lang": { "en-us": { "role": { "terseLabel": "Software Development Costs", "label": "Research, Development, and Computer Software, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for its research and development and computer software activities including the accounting treatment for costs incurred for (1) research and development activities, (2) development of computer software for internal use, (3) computer software to be sold, leased or otherwise marketed as a separate product or as part of a product or process and (4) in-process research and development acquired in a purchase business combination." } } }, "auth_ref": ["r938", "r978", "r1059"], "srt_RestatementAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RestatementAxis", "presentation": ["http://www.quantumcomputinginc.com/role/RestatementofPreviouslyIssuedFinancialStatementsDetails"], "lang": { "en-us": { "role": { "label": "Revision of Prior Period [Axis]", "documentation": "Information by adjustment to previously issued financial statements. Includes, but is not limited to, adjustment for retrospective application of amendment to accounting standards, other change in accounting principle, correction of error, and other revision." } } }, "auth_ref": ["r139", "r143", "r182", "r183", "r184", "r185", "r186", "r187", "r188", "r189", "r190", "r193", "r194", "r195", "r196", "r197", "r198", "r218", "r272", "r273", "r443", "r444", "r445", "r446", "r448", "r449", "r461", "r462", "r463", "r464", "r481", "r483", "r495", "r496", "r571", "r572", "r573", "r574", "r575", "r576", "r577", "r578", "r579", "r580", "r582", "r906"], "ecd_RestatementDateAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDateAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "label": "Restatement Determination Date [Axis]", "terseLabel": "Restatement Determination Date", "documentation": "Restatement Determination Date." } } }, "auth_ref": ["r759", "r770", 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instrument for a specified period of time or until specified performance conditions are met." } } }, "auth_ref": ["r20"], "us-gaap_RestrictedStockUnitsRSUMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestrictedStockUnitsRSUMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Restricted Stock Units [Member]", "label": "Restricted Stock Units (RSUs) [Member]", "documentation": "Share instrument which is convertible to stock or an equivalent amount of cash, after a specified period of time or when specified performance conditions are met." } } }, "auth_ref": [] }, "us-gaap_RetainedEarningsAccumulatedDeficit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsAccumulatedDeficit", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 4.0 }, "presentation": ["http://www.quantumcomputinginc.com/role/NatureoftheOrganizationandBusinessDetails"], "lang": { "en-us": { "role": { "terseLabel": "Accumulated deficit", "label": "Retained Earnings (Accumulated Deficit)", "documentation": "Amount of accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r59", "r86", "r555", "r575", "r580", "r589", "r618", "r725"], "us-gaap_RetainedEarningsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsMember", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Accumulated Deficit", "label": "Retained Earnings [Member]", "documentation": "Accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r142", "r182", "r183", "r184", "r186", "r192", "r195", "r197", "r271", "r274", "r302", "r433", "r434", "r442", "r443", "r444", 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Includes, but is not limited to, investment and interest income before deduction of interest expense when recognized as a component of revenue, and sales and trading gain (loss)." } } }, "auth_ref": ["r111", "r112", "r169", "r179", "r219", "r224", "r225", "r228", "r230", "r231", "r232", "r233", "r270", "r317", "r318", "r319", "r320", "r321", "r322", "r323", "r324", "r325", "r470", "r546", "r693", "r946"], "ecd_Rule10b51ArrAdoptedFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrAdoptedFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "label": "Rule 10b5-1 Arrangement Adopted [Flag]", "terseLabel": "Rule 10b5-1 Arrangement Adopted" } } }, "auth_ref": ["r838"], "ecd_Rule10b51ArrTrmntdFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrTrmntdFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "label": "Rule 10b5-1 Arrangement Terminated [Flag]", "terseLabel": "Rule 10b5-1 Arrangement Terminated" } } }, "auth_ref": ["r838"], "us-gaap_SaleOfStockNameOfTransactionDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SaleOfStockNameOfTransactionDomain", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "label": "Sale of Stock [Domain]", "documentation": "Sale of the entity's stock, including, but not limited to, initial public offering (IPO) and private placement." } } }, "auth_ref": [] }, "us-gaap_SaleOfStockNumberOfSharesIssuedInTransaction": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SaleOfStockNumberOfSharesIssuedInTransaction", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Sale of stock units", "label": "Sale of Stock, Number of Shares Issued in Transaction", "documentation": "The number of shares issued or sold by the subsidiary or equity method investee per stock transaction." } } }, "auth_ref": [] }, "us-gaap_SaleOfStockPricePerShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SaleOfStockPricePerShare", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Price of per share (in Dollars per

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Excludes information expected to be reported in future period for effect on historical fact." } } }, "auth_ref": ["r369", "r880", "r897"] }, "srt_ScenarioPreviouslyReportedMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ScenarioPreviouslyReportedMember", "presentation": ["http://www.quantumcomputinginc.com/role/RestatementOfPreviouslyIssuedFinancialStatementsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Previously Reported [Member]", "label": "Previously Reported [Member]", "documentation": "Represents amount as previously reported before adjustment for retrospective application of amendment to accounting standards, other change in accounting principle, correction of error, and other revision." } } }, "auth_ref": ["r143", "r182", "r184", "r185", "r186", "r187", "r188", "r197", "r218", "r443", "r445", "r446", "r448", "r449", "r461", "r462", "r463", "r481", "r483", "r571", "r572", "r573", "r574", "r575", "r576", "r577", "r578", "r579", "r580", "r582", "r869", "r870", "r871", "r872", "r896", "r906", "r919", "r920", "r987", "r1010", "r1011"] }, "srt_ScenarioUnspecifiedDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ScenarioUnspecifiedDomain", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails", "http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "label": "Scenario [Domain]", "documentation": "Scenario reported, distinguishing information from actual fact. Includes, but is not limited to, pro forma and forecast. Excludes actual facts." } } }, "auth_ref": ["r139", "r198", "r369", "r864", "r897"] }, "qubt_ScheduleOfAmountsRelatedToIntangibleAssetsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfAmountsRelatedToIntangibleAssetsAbstract", "lang": { "en-us": { "role": { "label": "Schedule Of Amounts Related To Intangible Assets Abstract" } } }, "auth_ref": [] }, "us-gaap_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTable", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleOfWeightedAverageCommonStockEquivalentsSecuritiesOutstandingEffectAntiDilutiveTable"], "lang": { "en-us": { "role": { "label": "Antidilutive Security, Excluded EPS Calculation [Table]", "documentation": "Disclosure of information about security that could potentially dilute basic earnings per share (EPS) in future that was not included in calculation of diluted EPS." } } }, "auth_ref": ["r20"] }, "us-gaap_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/NetLossperCommonShareTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti-Dilutive", "label": "Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table Text Block]", "documentation": "Tabular disclosure of securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) in the future that were not included in the computation of diluted EPS because to do so would increase EPS amounts or decrease loss per share amounts for the period presented, by antidilutive securities." } } }, "auth_ref": ["r20"] }, "us-gaap_ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/NetLossperCommonShareTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Computation of Basic and Diluted Loss Per Share", "label": "Schedule of Earnings Per Share, Basic and Diluted [Table Text Block]", "documentation": "Tabular disclosure of an entity's basic and diluted earnings per share calculations, including a reconciliation of numerators and denominators of the basic and diluted per-share computations for income from continuing operations." } } }, "auth_ref": ["r900"] }, "us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTable", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleOfStockBasedCompensationExpenseForServicesExpensesForBothSharesIssuedandStockOptions", "http://www.quantumcomputinginc.com/role/ShareBasedPaymentArrangement, Expensed and Capitalized, Amount [Table]", "documentation": "Disclosure of information about amount recognized for award under share-based payment arrangement. Includes, but is not limited to, amount expensed in statement of income or comprehensive income, amount capitalized in statement of financial position, and corresponding reporting line item in financial statements." } } }, "auth_ref": ["r36"] }, "us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted", "label": "Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block]", "documentation": "Tabular disclosure of allocation of amount expensed and capitalized for award under share-based payment arrangement to statement of income or comprehensive income and statement of financial position. Includes, but is not limited to, corresponding line item in financial statement." } } }, "auth_ref": ["r36"] }, "srt_ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ScheduleOfEquityMethodInvestmentEquityMethodInvesteeNameAxis", "presentation": ["http://www.quantumcomputinginc.com/role/ContingenciesDetails"], "lang": { "en-us": { "role": { "label": "Investment, Name [Axis]", "documentation": "Information by name of investment including named security. Excludes entity that is consolidated." } } }, "auth_ref": ["r267", "r268", "r269", "r441", "r865", "r866", "r867", "r982", "r983", "r984", "r985"] }, "qubt_ScheduleOfExercisePriceRangeAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfExercisePriceRangeAbstract", "lang": { "en-us": { "role": { "label": "Schedule of Exercise Price Range [Abstract]", "documentation": "Information about amount recognized for award under share-based payment arrangement. Includes, but is not limited to, amount expensed in statement of income or comprehensive income, amount capitalized in statement of financial position, and corresponding reporting line item in financial statements." } } }, "auth_ref": [] }, "qubt_ScheduleOfGrantDateFairValueOfStockOptionsGrantedAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfGrantDateFairValueOfStockOptionsGrantedAbstract", "lang": { "en-us": { "role": { "label": "Schedule Of Grant Date Fair Value Of Stock Options Granted Abstract" } } }, "auth_ref": [] }, "us-gaap_ScheduleOfIntangibleAssetsAndGoodwillTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfIntangibleAssetsAndGoodwillTableTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/IntangibleAssetsandGoodwillTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Amounts Related to Intangible Assets", "label": "Schedule of Intangible Assets and Goodwill [Table Text Block]", "documentation": "Tabular disclosure of goodwill and intangible assets, which may be broken down by segment or major class." } } }, "auth_ref": ["r923", "r926"] }, "qubt_ScheduleOfOutstandingPromissoryNotesPayableToFinancialLiabilitiesTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfOutstandingPromissoryNotesPayableToFinancialLiabilitiesTableTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Outstanding Promissory Notes Payable to Financial Liabilities", "label": "Schedule Of Outstanding Promissory Notes Payable To Financial Liabilities Table Text Block" } } }, "auth_ref": [] }, "qubt_ScheduleOfPropertyAndEquipmentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfPropertyAndEquipmentAbstract", "lang": { "en-us": { "role": { "label": "Schedule Of Property And Equipment Abstract" } } }, "auth_ref": [] }, "us-gaap_ScheduleOfPropertyPlantAndEquipmentTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfPropertyPlantAndEquipmentTable", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleOfPropertyandEquipmentTable"], "lang": { "en-us": { "role": { "label": "Property, Plant and Equipment [Table]", "documentation": "Disclosure of information about physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated depreciation." } } }, "auth_ref": ["r7", "r494"] }, "us-gaap_ScheduleOfShareBasedCompensationRestrictedStockUnitsAwardActivityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedCompensationRestrictedStockUnitsAwardActivityTableTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock", "label": "Share-Based Payment Arrangement, Restricted Stock Unit, Activity [Table Text Block]", "documentation": "Tabular disclosure of the number and weighted-average grant date fair value for restricted stock units that were outstanding at the beginning and end of the year, and the number of restricted stock units that were granted, vested, or forfeited during the year." } } }, "auth_ref": ["r87"] }, "us-gaap_ScheduleOfShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeTable", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleOfExercisePriceRangeTable"], "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Option, Exercise Price Range [Table]", "documentation": "Disclosure of information about share-based payment arrangement by range of exercise prices." } } }, "auth_ref": ["r31"] }, "us-

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Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value." } } }, "auth_ref": ["r10", "r11", "r87"] }, "us-gaap_ScheduleOfShareBasedPaymentAwardStockOptionsValuationAssumptionsTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedPaymentAwardStockOptionsValuationAssumptionsTableTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Grant-Date Fair Value of Stock Options Granted", "label": "Schedule of Share-Based Payment Award, Stock Options, Valuation Assumptions [Table Text Block]", "documentation": "Tabular disclosure of the significant assumptions used during the year to estimate the fair value of stock options, including, but not limited to: (a) expected term of share options and similar instruments, (b) expected volatility of the entity's shares, (c) expected dividends, (d) risk-free rate(s), and (e) discount for post-vesting restrictions." } } }, "auth_ref": ["r91"] }, "qubt_ScheduleOfStockBasedCompensationExpenseForServicesExpensesForBothSharesIssuedAndStockOptionAwardsGrantedAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfStockBasedCompensationExpenseForServicesExpensesForBothSharesIssuedAndStockOptionAwardsGrantedAbstract", "lang": { "en-us": { "role": { "label": "Schedule Of Stock Based Compensation Expense For Services Expenses For Both Shares Issued And Stock Option Awards Granted Abstract" } } }, "auth_ref": [] }, "qubt_ScheduleOfStockBasedCompensationExpenseRelatedToCommonStockOptionsAndRestrictedSharesOfCommonStockAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfStockBasedCompensationExpenseRelatedToCommonStockOptionsAndRestrictedSharesOfCommonStockAbstract", "lang": { "en-us": { "role": { "label": "Schedule Of Stock Based Compensation Expense Related To Common Stock Options And Restricted Shares Of Common Stock Abstract" } } }, "auth_ref": [] }, "us-gaap_ScheduleOfStockholdersEquityNoteWarrantsOrRightsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfStockholdersEquityNoteWarrantsOrRightsTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Warrants Outstanding", "label": "Schedule of Stockholders' Equity Note, Warrants or Rights [Table Text Block]", "documentation": "Tabular disclosure of warrants or rights issued. Warrants and rights outstanding are derivative securities that give the holder the right to purchase securities (usually equity) from the issuer at a specific price within a certain time frame. Warrants are often included in a new debt issue to entice investors by a higher return potential. The main difference between warrants and call options is that warrants are issued and guaranteed by the company, whereas options are exchange instruments and are not issued by the company. Also, the lifetime of a warrant is often measured in years, while the lifetime of a typical option is measured in months. Disclose the title of issue of securities called for by warrants and rights outstanding, the aggregate amount of securities called for by warrants and rights outstanding, the date from which the warrants or rights are exercisable, and the price at which the warrant or right is exercisable." } } }, "auth_ref": ["r30"] }, "qubt_ScheduleOfWarrantsOutstandingAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfWarrantsOutstandingAbstract", "lang": { "en-us": { "role": { "label": "Schedule Of Warrants Outstanding Abstract" } } }, "auth_ref": [] }, "qubt_ScheduleOfWeightedAverageCommonStockEquivalentsSecuritiesOutstandingEffectAntiDilutiveAbstract": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ScheduleOfWeightedAverageCommonStockEquivalentsSecuritiesOutstandingEffectAntiDilutiveAbstract", "lang": { "en-us": { "role": { "label": "Schedule Of Weighted Average Common Stock Equivalents Securities Outstanding Effect Anti Dilutive Abstract" } } }, "auth_ref": [] }, "us-gaap_ScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/IntangibleAssetsandGoodwillTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Future Amortization Expense", "label": "Schedule of Finite-Lived Intangible Assets, Future Amortization Expense [Table Text Block]", "documentation": "Tabular disclosure of the amount of amortization expense expected to be recorded in succeeding fiscal years for finite-lived intangible assets." } } }, "auth_ref": ["r698", "r934"] }, "dei_Security12bTitle": { "xbrltype": "securityTitleItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "Security12bTitle", "presentation": 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of expenses directly related to the marketing or selling of products or services." } } }, "auth_ref": [] }, "us-gaap_SellingAndMarketingExpenseMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SellingAndMarketingExpenseMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleOfStockBasedCompensationExpenseRelatedToCommonStockOptionsAndRestrictedSharesOfCommonStockAbstract"], "lang": { "en-us": { "role": { "terseLabel": "Selling and marketing [Member]", "label": "Selling and Marketing Expense [Member]", "documentation": "Primary financial statement caption encompassing selling and marketing expense." } } }, "auth_ref": ["r67"] }, "us-gaap_SellingGeneralAndAdministrativeExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SellingGeneralAndAdministrativeExpense", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement": { "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedIncomeStatement"], "lang": { "en-us": { "role": { "terseLabel": "General and administrative", "label": "Selling, General and Administrative Expense", "documentation": "The aggregate total costs related to selling a firm's product and services, as well as all other general and administrative expenses. Direct selling expenses (for example, credit, warranty, and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products, for example telephone expenses, Internet, and postal charges. General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc." } } }, "auth_ref": ["r67"] }, "us-gaap_SellingGeneralAndAdministrativeExpenseMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SellingGeneralAndAdministrativeExpenseMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleOfStockBasedCompensationExpenseForServicesExpensesForBothSharesIssuedAndStockOptionsAbstract"], "lang": { "en-us": { "role": { "terseLabel": "General and administrative [Member]", "label": "Selling, General and Administrative Expenses [Member]", "documentation": "Primary financial statement caption encompassing selling, general and administrative expense." } } }, "auth_ref": [] }, "qubt_SeparationAgreementSharesMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "SeparationAgreementSharesMember", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Separation Agreement Shares [Member]", "label": "Separation Agreement Shares Member" } } }, "auth_ref": [] }, "qubt_SeriesAConvertiblePreferredMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "SeriesAConvertiblePreferredMember", "presentation": ["http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Series A Convertible Preferred [Member]", "label": "Series A Convertible Preferred Member" } } }, "auth_ref": [] }, "us-gaap_SeriesAPreferredStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SeriesAPreferredStockMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Series A Preferred Stock", "verboseLabel": "Series A Preferred Stock [Member]", "netLabel": "Series A Convertible Preferred Stock [Member]", "label": "Series A Preferred" } } }, "auth_ref": [] }

Stock [Member]", "documentation": "Series A preferred stock." } } }, "auth_ref": ["r883", "r884", "r949"] }, "us-gaap_SeriesBPreferredStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SeriesBPreferredStockMember", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/ContingenciesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Series B Preferred Stock", "verboseLabel": "Series B Preferred Stock [Member]", "label": "Series B Preferred Stock [Member]", "documentation": "Series B preferred stock." } } } }, "auth_ref": ["r883", "r884", "r949"] }, "us-gaap_ShareBasedCompensation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensation", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow", "http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSharesofCon", "lang": { "en-us": { "role": { "terseLabel": "Stock-based compensation expense", "verboseLabel": "Total stock-based compensation", "label": "Share-Based Payment Arrangement, Noncash Expense", "documentation": "Amount of noncash expense for share-based payment arrangement." } } } }, "auth_ref": ["r5"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": 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holders of the underlying shares over the option's term." } } } }, "auth_ref": ["r401"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRate": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRate", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofGrantDateFairValueofStockOptionsGrantedTable"], "lang": { "en-us": { "role": { "terseLabel": "Expected volatility", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Volatility Rate", "documentation": "The estimated measure of the percentage by which a share price is expected to fluctuate during a period. Volatility also may be defined as a probability-weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in the natural logarithms of the stock prices plus dividends, if any, over the period." } } } }, "auth_ref": ["r400"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRate": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRate", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofGrantDateFairValueofStockOptionsGrantedTable"], "lang": { "en-us": { "role": { "terseLabel": "Risk-free interest rate", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate", "documentation": "The risk-free interest rate assumption that is used in valuing an option on its own shares." } } } }, "auth_ref": ["r402"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofGrantDateFairValueofStockOptionsGrantedTable", "http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseforServicesExpensesforBothSharesIssuedandStockOptions", "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items]", "terseLabel": "Schedule of Stock-Based Compensation Expense for Services Expenses for Both Shares Issued and Stock Option Awards Granted [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } } }, "auth_ref": ["r371", "r373", "r375", "r376", "r377", "r379", "r380", "r381", "r382", "r383", "r384", "r385", "r386", "r387", "r388", "r389", "r390", "r391", "r392", "r393", "r394", "r395", "r396", "r399", "r400", "r401", "r402", "r403"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNonOptionEquityInstrumentsExercised": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardNonOptionEquityInstrumentsExercised", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofWarrantsOutstandingTable"], "lang": { "en-us": { "role": { "negatedLabel": "Exercised", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Non-Option Equity Instruments, Exercised", "documentation": "Number of non-option equity instruments exercised by participants." } } } }, "auth_ref": ["r9"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAvailableForGrant": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAvailableForGrant", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Number of shares available for issue", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Number of Shares Available for Grant", "documentation": "The difference between the maximum number of shares (or other type of equity) authorized for issuance under the plan (including the effects of amendments and adjustments), and the sum of: 1) the number of shares (or other type of equity) already issued upon exercise of options or other equity-based awards under the plan; and 2) shares (or other type of equity) reserved for issuance on granting of outstanding awards, net of cancellations and forfeitures, if applicable." } } } }, "auth_ref": ["r31"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresInPeriod", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofOptionActivityTable"], "lang": { "en-us": { "role": { "negatedLabel": "Number Outstanding, Forfeited", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures in Period", "documentation": "The number of shares under options that were cancelled during the reporting period as a result of occurrence of a terminating event specified in contractual agreements pertaining to the stock option plan." } } } }, "auth_ref": ["r385"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofOptionActivityTable"], "lang": { "en-us": { "role": { "terseLabel": "Number Outstanding, Granted", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Gross", "documentation": "Gross number of share options (or share units) granted during the period." } } } }, "auth_ref": ["r383"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofOptionActivityTable"], "lang": { "en-us": { "role": { "periodEndLabel": "Number Outstanding, Outstanding balance", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Number", "documentation": "Number of options outstanding, including both vested and non-vested options." } } } }, "auth_ref": ["r379", "r380"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingRollForward": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname":

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Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": ["r396"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestExercisableWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestExercisableWeightedAverageExercisePrice", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofOptionActivityTable"], "lang": { "en-us": { "role": { "terseLabel": "Weighted Average Exercise Price per Share, Vested and exercisable", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Exercisable, Weighted Average Exercise Price", "documentation": "Weighted-average exercise price, at which grantee can acquire shares reserved for issuance, for fully vested and expected to vest exercisable or convertible options. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": ["r396"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Number of shares available for issue", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Shares Issued in Period", "documentation": "Number of shares issued under share-based payment arrangement." } } }, "auth_ref": ["r31"] }, 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["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails", "http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "label": "All Award Types", "terseLabel": "All Award Types", "documentation": "Award under share-based payment arrangement." } } }, "auth_ref": ["r375", "r376", "r377", "r379", "r380", "r381", "r382", "r383", "r384", "r385", "r386", "r387", "r388", "r389", "r390", "r391", "r392", "r393", "r394", "r395", "r396", "r399", "r400", "r401", "r402", "r403"] }, "us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofOptionActivityTable"], 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Share-Based Payment Award, Options, Grants in Period, Weighted Average Exercise Price", "documentation": "Weighted average per share amount at which grantees can acquire shares of common stock by exercise of options." } } }, "auth_ref": ["r383"] }, "us-gaap_ShareBasedCompensationOptionAndIncentivePlansPolicy": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationOptionAndIncentivePlansPolicy", "presentation": ["http://www.quantumcomputinginc.com/role/AccountingPoliciesByPolicy"], "lang": { "en-us": { "role": { "terseLabel": "Stock-Based Compensation", "label": "Share-Based Payment Arrangement [Policy Text Block]", "documentation": "Disclosure of accounting policy for award under share-based payment arrangement. Includes, but is not limited to, methodology and assumption used in measuring cost." } } }, "auth_ref": ["r370", "r378", "r397", "r398", "r399", "r400", "r403", "r409", "r410", "r411", "r412"] }, "us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable"], "lang": { "en-us": { "role": { "label": "Exercise Price Range [Axis]", "documentation": "Information by range of option prices pertaining to options granted." } } }, "auth_ref": ["r34"] }, "us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeDomain", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable"], "lang": { "en-us": { "role": { "label": "Exercise Price Range [Domain]", "documentation": "Supplementary information on outstanding and exercisable share awards as of the balance sheet date which stratifies outstanding options by ranges of exercise prices." } } }, "auth_ref": ["r35"] }, "us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable"], "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Option, Exercise Price Range [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeNumberOfExercisableOptions": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeNumberOfExercisableOptions", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable"], "lang": { "en-us": { "role": { "terseLabel": "Exercisable Options", "label": "Share-Based Payment Arrangement, Option, Exercise Price Range, Shares Exercisable", "documentation": "The number of shares reserved for issuance pertaining to the outstanding exercisable stock options as of the balance sheet date in the customized range of exercise prices for which the market and performance vesting condition has been satisfied." } } }, "auth_ref": ["r32"] }, "us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeNumberOfOutstandingOptions": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeNumberOfOutstandingOptions", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable"], "lang": { "en-us": { "role": { "terseLabel": "Outstanding Options", "label": "Share-Based Payment Arrangement, Option, Exercise Price Range, Shares Outstanding", "documentation": "The number of

shares reserved for issuance pertaining to the outstanding stock options as of the balance sheet date for all option plans in the customized range of exercise prices." } } }, "auth_ref": ["r88", "r89"] }, "us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeUpperRangeLimit": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeUpperRangeLimit", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable"], "lang": { "en-us": { "role": { "terseLabel": "Exercise Price (in Dollars per share)", "label": "Share-Based Payment Arrangement, Option, Exercise Price Range, Upper Range Limit", "documentation": "The ceiling of a customized range of exercise prices for purposes of disclosing shares potentially issuable under outstanding stock option awards on all stock option plans and other required information pertaining to awards in the customized range." } } }, "auth_ref": ["r35"] }, "us-gaap_SharePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharePrice", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Average price (in Dollars per share)", "label": "Share Price", "documentation": "Price of a single share of a number of saleable stocks of a company." } } }, "auth_ref": [] }, "us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardFairValueAssumptionsExpectedTerm1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardFairValueAssumptionsExpectedTerm1", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofGrantDateFairValueofStockOptionsGrantedTable"], "lang": { "en-us": { "role": { "terseLabel": "Expected life of options (in years)", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Term", "documentation": "Expected term of award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r399"] }, "us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableWeightedAverageRemainingContractualTerm1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableWeightedAverageRemainingContractualTerm1", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Expected to be recognized over a period", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Weighted Average Remaining Contractual Term", 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Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": ["r396"] }, "us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsWeightedAverageRemainingContractualLifeYearsExercised": { "xbrltype": "durationItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsWeightedAverageRemainingContractualLifeYearsExercised", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofOptionActivityTable"], "lang": { "en-us": { "role": { "terseLabel": "Weighted Average Remaining Contractual Life (Years), Exercised", "label": "Sharebased Compensation Arrangement By Sharebased Payment Award Options Weighted Average Remaining Contractual Life Years Exercised" } } }, "auth_ref": [] }, "us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardPurchasePriceOfCommonStockPercent": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharebasedCompensationArrangementBySharebasedPaymentAwardPurchasePriceOfCommonStockPercent", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Closing trade percentage", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Purchase Price of Common Stock, Percent", "documentation": "Purchase price of common stock expressed as a percentage of its fair value." } } }, "auth_ref": [] }, "us-gaap_SharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharesOutstanding", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "periodStartLabel": "Balance (in Shares)", "periodEndLabel": "Balance (in Shares)", "label": "Shares, Outstanding", "documentation": "Number of shares issued which are neither cancelled nor held in the treasury." } } }, "auth_ref": [] }, "us-gaap_SharesSubjectToMandatoryRedemptionSettlementTermsAmountCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SharesSubjectToMandatoryRedemptionSettlementTermsAmountCurrent", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Redeem of streeterville convertible note", "label": "Financial Instruments Subject to Mandatory Redemption, Settlement Terms, Share Value, Amount, Current", "documentation": "The amount that is required to be paid, determined under the conditions specified in the contract, if as of the reporting date, the holder of the share has exercised the right to or the shares are mandatorily redeemable within one year of the reporting date or operating cycle, if longer." } } }, "auth_ref": ["r27"] }, "us-gaap_ShortTermDebtPercentageBearingFixedInterestRate": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShortTermDebtPercentageBearingFixedInterestRate", "presentation": ["http://www.quantumcomputinginc.com/role/LoanReceivableDetails"], "lang": { "en-us": { "role": { "terseLabel": "Bears simple interest", "label": "Short-Term Debt, Percentage Bearing Fixed Interest Rate", "documentation": "The portion of the carrying amount of short-term borrowings outstanding as of the balance sheet date which accrues interest at a set, unchanging rate." } } }, "auth_ref": [] }, "us-gaap_SignificantAccountingPoliciesDetailsTable": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "SignificantAccountingPoliciesDetailsTable", "presentation": ["http://www.quantumcomputinginc.com/role/SignificantAccountingPoliciesDetails"], "lang": { "en-us": { "role": { "label": "Significant Accounting Policies (Details) [Table]" } } }, "auth_ref": [] }, "us-gaap_SignificantAccountingPoliciesLineItems": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "SignificantAccountingPoliciesLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/SignificantAccountingPoliciesDetails"], "lang": { "en-us": { "role": { "label": "Significant Accounting Policies [Line Items]" } } }, "auth_ref": [] }, "us-gaap_SignificantAccountingPoliciesTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SignificantAccountingPoliciesTextBlock", "presentation": ["http://www.quantumcomputinginc.com/role/SignificantAccountingPolicies"], "lang": { "en-us": { "role": { "terseLabel": "Significant Accounting Policies", "label": "Significant Accounting Policies [Text Block]", "documentation": "The entire disclosure for all significant accounting policies of

the reporting entity." } } }, "auth_ref": ["r79", "r178"] }, "qubt_SixPointZeroZeroToEightPointZeroZeroMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "SixPointZeroZeroToEightPointZeroZeroMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable"] }, "lang": { "en-us": { "role": { "terseLabel": "6.00 lu2013 8.00 [Member]", "label": "Six Point Zero Zero To Eight Point Zero Zero Member" } } }, "auth_ref": [] }, "us-gaap_SoftwareDevelopmentMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SoftwareDevelopmentMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofPropertyandEquipmentTable"] }, "lang": { "en-us": { "role": { "terseLabel": "Software [Member]", "label": "Software Development [Member]", "documentation": "Internally developed software for sale, licensing or long-term internal use." } } }, "auth_ref": [] }, "dei_SolicitingMaterial": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "SolicitingMaterial", "presentation": ["http://xbrl.sec.gov/dei/role/document/Cover"] }, "lang": { "en-us": { "role": { "label": "Soliciting Material", "documentation": "Boolean flag that is true when the Form 8-K filing is intended to satisfy the filing obligation of the registrant as soliciting material pursuant to Rule 14a-12 under the Exchange Act." } } }, "auth_ref": ["r750"] }, "us-gaap_StatementClassOfStockAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementClassOfStockAxis", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails", "http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"] }, "lang": { "en-us": { "role": { "label": "Class of Stock [Axis]", "documentation": "Information by the different classes of stock of the entity." } } }, "auth_ref": ["r131", "r155", "r156", "r157", "r179", "r203", "r204", "r211", "r213", "r221", "r222", "r270", "r317", "r319", "r320", "r321", "r324", "r325", "r345", "r346", "r349", "r350", "r352", "r470", "r585", "r586", "r587", "r588", "r594", "r595", "r596", "r597", "r598", "r599", "r600", "r601", "r602", "r603", "r604", "r605", "r617", "r638", "r658", "r677", "r678", "r679", "r680", "r681", "r863", "r889", "r899"] }, "us-gaap_StatementEquityComponentsAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementEquityComponentsAxis", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ContingenciesDetails", "http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"] }, "lang": { "en-us": { "role": { "label": "Equity Components [Axis]", "documentation": "Information by component of equity." } } }, "auth_ref": ["r8", "r57", "r60", "r61", "r142", "r166", "r167", "r168", "r182", "r183", "r184", "r186", "r192", "r195", "r197", "r220", "r271", "r274", "r302", "r354", "r433", "r434", "r442", "r443", "r444", "r446", "r448", "r449", "r454", "r455", "r456", "r457", "r458", "r459", "r462", "r471", "r472", "r473", "r474", "r475", "r476", "r482", "r485", "r496", "r563", "r571", "r572", "r573", "r594", "r658"] }, "us-gaap_StatementLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"] }, "lang": { "en-us": { "role": { "label": "Statement [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r182", "r183", "r184", "r220", "r485", "r540", "r583", "r605", "r609", "r610", "r611", "r612", "r613", "r614", "r617", "r620", "r621", "r622", "r623", "r624", "r625", "r626", "r627", "r628", "r630", "r631", "r632", "r633", "r634", "r636", "r639", "r640", "r644", "r645", "r646", "r647", "r648", "r649", "r650", "r651", "r652", "r653", "r654", "r655", "r658", "r733"] }, "us-gaap_StatementOfCashFlowsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementOfCashFlowsAbstract", "lang": { "en-us": { "role": { "label": "Statement of Cash Flows [Abstract]" } } }, "auth_ref": [] }, "us-gaap_StatementOfFinancialPositionAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementOfFinancialPositionAbstract", "lang": { "en-us": { "role": { "label": "Statement of Financial Position [Abstract]" } } }, "auth_ref": [] }, "us-gaap_StatementOfStockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementOfStockholdersEquityAbstract", "lang": { "en-us": { "role": { "label": "Statement of Stockholders' Equity [Abstract]" } } }, "auth_ref": [] }, "srt_StatementScenarioAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "StatementScenarioAxis", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails", "http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"] }, "lang": { "en-us": { "role": { "label": "Scenario [Axis]", "documentation": "Information by scenario reported, distinguishing information from actual fact. Includes, but is not limited to, pro forma and forecast. Excludes actual facts." } } }, "auth_ref": ["r139", "r198", "r369", "r864", "r868", "r897"] }, "us-gaap_StatementTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StatementTable", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet_Parentheticals", "http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"] }, "lang": { "en-us": { "role": { "label": "Statement [Table]", "documentation": "Disclosure of information about statement of comprehensive income, income, other comprehensive income, financial position, cash flows, and shareholders' equity." } } }, "auth_ref": ["r182", "r183", "r184", "r220", "r234", "r485", "r540", "r583", "r605", "r609", "r610", "r611", "r612", "r613", "r614", "r617", "r620", "r621", "r622", "r623", "r624", "r625", "r626", "r627", "r628", "r630", "r631", "r632", "r633", "r634", "r636", "r639", "r640", "r644", "r645", "r646", "r647", "r648", "r649", "r650", "r651", "r652", "r653", "r654", "r655", "r658", "r733"] }, "ecd_StkPrCOrTsrEstimationMethodTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "StkPrCOrTsrEstimationMethodTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"] }, "lang": { "en-us": { "role": { "label": "Stock Price or TSR Estimation Method [Text Block]", "terseLabel": "Stock Price or TSR Estimation Method" } } }, "auth_ref": ["r762", "r773", "r789", "r824"] }, "us-gaap_StockAndWarrantsIssuedDuringPeriodValuePreferredStockAndWarrants": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockAndWarrantsIssuedDuringPeriodValuePreferredStockAndWarrants", "crd": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"] }, "lang": { "en-us": { "role": { "terseLabel": "Issued warrants price (in Dollars)", "label": "Stock and Warrants Issued During Period, Value, Preferred Stock and Warrants", "documentation": "Value of preferred stock and warrants for common stock issued." } } }, "auth_ref": [] }, "us-gaap_StockAppreciationRightsSARSMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockAppreciationRightsSARSMember", "presentation": ["http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"] }, "lang": { "en-us": { "role": { "label": "Stock Appreciation Rights (SARs) [Member]", "terseLabel": "Stock Appreciation Rights (SARs)", "documentation": "Right to receive cash or shares equal to appreciation of predetermined number of grantor's shares during predetermined time period." } } }, "auth_ref": [] }, "qubt_StockBasedCompensationDetailsScheduleofGrantDateFairValueofStockOptionsGrantedTable": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "StockBasedCompensationDetailsScheduleofGrantDateFairValueofStockOptionsGrantedTable", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofGrantDateFairValueofStockOptionsGrantedTable"] }, "lang": { "en-us": { "role": { "label": "Stock-Based Compensation (Details) - Schedule of Grant-Date Fair Value of Stock Options Granted [Table]" } } }, "auth_ref": [] }, "qubt_StockBasedCompensationDetailsScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSharesofCommon": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "StockBasedCompensationDetailsScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSharesofCommonStock", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseRelatedtoCommonStockOptionsandRestrictedSharesofCommon", "lang": { "en-us": { "role": { "label": "Stock-Based Compensation (Details) - Schedule of Stock-Based Compensation Expense Related to Common Stock Options and Restricted Shares of Common Stock [Table]" } } }, "auth_ref": [] }, "qubt_StockBasedCompensationDetailsTable": { "xbrltype": "stringItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "StockBasedCompensationDetailsTable", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"] }, "lang": { "en-us": { "role": { "label": "Stock-Based Compensation (Details) [Table]" } } }, "auth_ref": [] }, "us-gaap_StockDividendsShares": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockDividendsShares", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"] }, "lang": { "en-us": { "role": { "terseLabel": "Accrued dividend shares", "label": "Stock Dividends, Shares", "documentation": "Number of shares of common and preferred stock issued as dividends during the period. Excludes stock splits." } } }, "auth_ref": ["r8"] }, "us-gaap_StockIssuedDuringPeriodSharesConversionOfConvertibleSecurities": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodSharesConversionOfConvertibleSecurities", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"] }, "lang": { "en-us": { "role": { "terseLabel": "Conversion of preferred stock (in Shares)", "label": "Stock Issued During Period, Shares, Conversion of Convertible Securities", "documentation": "Number of shares issued during the period as a result of the conversion of convertible securities." } } }, "

"StockIssuedDuringPeriodSharesPurchaseOfAssets", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Purchased shares", "label": "Stock Issued During Period, Shares, Purchase of Assets", "documentation": "Number of shares of stock issued during the period as part of a transaction to acquire assets that do not qualify as a business combination." } } }, "auth_ref": [] }, "us-gaap_StockIssuedDuringPeriodSharesShareBasedCompensation": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodSharesShareBasedCompensation", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Stock-based compensation (in Shares)", "label": "Shares Issued, Shares, Share-Based Payment Arrangement, after Forfeiture", "documentation": "Number, after forfeiture, of shares or units issued under share-based payment arrangement. Excludes shares or units issued under employee stock ownership plan (ESOP)." } } }, "auth_ref": ["r8", "r56", "r57", "r86"] }, "qubt_StockIssuedDuringPeriodSharesShareBasedCompensationForServices": { "xbrltype": "monetaryItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "StockIssuedDuringPeriodSharesShareBasedCompensationForServices", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Stock-based compensation for services", "label": "Represent the amount of stock-based compensation for services.", "documentation": "Number of shares (or other type of equity) forfeited during the period." } } }, "auth_ref": [] }, "us-gaap_StockIssuedDuringPeriodSharesShareBasedCompensationForfeited": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodSharesShareBasedCompensationForfeited", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Issued shares forfeited", "label": "Shares Issued, Shares, Share-Based Payment Arrangement, Forfeited", "documentation": "Number of shares (or other type of equity) forfeited during the period." } } }, "auth_ref": [] }, "us-gaap_StockIssuedDuringPeriodSharesShareBasedCompensationGross": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodSharesShareBasedCompensationGross", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Stock-based compensation for services (in Shares)", "label": "Shares Issued, Shares, Share-Based Payment Arrangement, before Forfeiture", "documentation": "Number, before forfeiture, of shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP)." } } }, "auth_ref": [] }, "us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodSharesStockOptionsExercised", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofOptionActivityTable"], "lang": { "en-us": { "role": { "terseLabel": "Number Outstanding, Exercised", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercises in Period", "documentation": "Number of share options (or share units) exercised during the current period." } } }, "auth_ref": ["r8", "r56", "r57", "r86", "r384"] }, "us-gaap_StockIssuedDuringPeriodValueConversionOfConvertibleSecurities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodValueConversionOfConvertibleSecurities", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Conversion of preferred stock", "label": "Stock Issued During Period, Value, Conversion of Convertible Securities", "documentation": "The gross value of stock issued during the period upon the conversion of convertible securities." } } }, "auth_ref": ["r8", "r57", "r60", "r61", "r86"] }, "us-gaap_StockIssuedDuringPeriodValueNewIssues": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodValueNewIssues", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Issuance of shares for cash", "label": "Stock Issued During Period, Value, New Issues", "documentation": "Equity impact of the value of new stock issued during the period. Includes shares issued in an initial public offering or a secondary public offering." } } }, "auth_ref": ["r8", "r56", "r57", "r86", "r594", "r658", "r678", "r739"] }, "us-gaap_StockIssuedDuringPeriodValueShareBasedCompensation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodValueShareBasedCompensation", "crdr": "credit", "presentation": ["http://www.quantumcomputinginc.com/role/StockBasedCompensationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Stock-based compensation (in Dollars)", "label": "Shares Issued, Value, Share-Based Payment Arrangement, after Forfeiture", "documentation": "Value, after forfeiture, of shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP)." } } }, "auth_ref": ["r33", "r56", "r57", "r86"] }, "us-gaap_StockOptionMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockOptionMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofWeightedAverageCommonStockEquivalentSecuritiesOutstandingEffectAntiDilutiveTable"], "lang": { "en-us": { "role": { "terseLabel": "Options [Member]", "label": "Equity Option [Member]", "documentation": "Contracts conveying rights, but not obligations, to buy or sell a specific quantity of stock at a specified price during a specified period (an American option) or at a specified date (a European option)." } } }, "auth_ref": ["r732"] }, "us-gaap_StockRedeemedOrCalledDuringPeriodShares": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockRedeemedOrCalledDuringPeriodShares", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails", "http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3", "http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "negatedLabel": "Repurchase of redeemable shares (in Shares)", "terseLabel": "Redeemed, shares", "label": "Stock Redeemed or Called During Period, Shares", "documentation": "Number of stock bought back by the entity at the exercise price or redemption price." } } }, "auth_ref": ["r8"] }, "us-gaap_StockRedeemedOrCalledDuringPeriodValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockRedeemedOrCalledDuringPeriodValue", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Cash Paid (in Dollars)", "label": "Stock Redeemed or Called During Period, Value", "documentation": "Equity impact of the value of stock bought back by the entity at the exercise price or redemption price." } } }, "auth_ref": ["r8"] }, "us-gaap_StockRepurchasedDuringPeriodValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockRepurchasedDuringPeriodValue", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/ShareholdersEquityType2or3"], "lang": { "en-us": { "role": { "terseLabel": "Repurchase of redeemable shares", "label": "Stock Repurchased During Period, Value", "documentation": "Equity impact of the value of stock that has been repurchased during the period and has not been retired and is not held in treasury. Some state laws may mandate the circumstances under which an entity may acquire its own stock and prescribe the accounting treatment therefore. This element is used when state law does not recognize treasury stock." } } }, "auth_ref": ["r8", "r56", "r57", "r86", "r594", "r658", "r680", "r739"] }, "qubt_StockBasedCompensationExpenseForServices": { "xbrltype": "monetaryItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "StockbasedCompensationExpenseForServices", "crdr": "debit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 6.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow", "http://www.quantumcomputinginc.com/role/ScheduleofStockBasedCompensationExpenseforServicesExpensesforBothSharesIssuedandStockOption", "http://www.quantumcomputinginc.com/role/RestatementofPreviouslyIssuedFinancialStatementsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Stock-based compensation expense for services", "label": "Stockbased Compensation Expense For Services", "documentation": "Total stock-based compensation expense for services." } } }, "auth_ref": [] }, "us-gaap_StockholdersEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquity", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet", "http://www.quantumcomputinginc.com/role/RestatementofPreviouslyIssuedFinancialStatementsDetails"], "lang": { "en-us": { "role": { "totalLabel": "Total stockholders\u2019 equity", "periodStartLabel": "Balance", "periodEndLabel": "Balance", "terseLabel": "Equity, attributable to parent", "label": "Equity, Attributable to Parent", "documentation": "Amount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest." } } }, "auth_ref": ["r57", "r60", "r61", "r80", "r619", "r635", "r659", "r660", "r725", "r740", "r891", "r918", "r1004", "r1057"] }, "us-gaap_StockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityAbstract", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet"], "lang": { "en-us": { "role": { "terseLabel": "Stockholders\u2019 equity", "label": "Equity, Attributable to Parent [Abstract]" } } }, "auth_ref": [] }, "qubt_StreetervilleCapitalLLCMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "StreetervilleCapitalLLCMember", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Streeterville Capital, LLC [Member]", "label": "Streeterville Capital LLC Member" } } }, "auth_ref": [] }, "qubt_StreetervilleMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "StreetervilleMember", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Streeterville [Member]", "label": "Streeterville Member" } } }, "auth_ref": [] }, "qubt_StreetervilleUnsecuredNoteMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "StreetervilleUnsecuredNoteMember", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Streeterville Unsecured Note [Member]", "label": "Streeterville Unsecured Note Member" } } }, "auth_ref": [] }, "us-gaap_SubsequentEventLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventLineItems", "presentation": ["http://www.quantumcomputinginc.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "label": "Subsequent Events [Line Items]", "documentation": "Detail information of subsequent event by type. User is expected to use existing line items from elsewhere in the taxonomy as the primary line items for this disclosure, which is further associated with dimension and member elements pertaining to a subsequent event." } } }, "auth_ref": ["r477", "r504"] }, "us-gaap_SubsequentEventMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024",

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Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business." } } }, "auth_ref": ["r503", "r505"] }, "us-gaap_SubsidarySaleOfStockAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsidarySaleOfStockAxis", "presentation": ["http://www.quantumcomputinginc.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "label": "Sale of Stock [Axis]", "documentation": "Information by type of sale of the entity's stock." } } }, "auth_ref": [] }, "us-gaap_SupplementalCashFlowInformationAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SupplementalCashFlowInformationAbstract", "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedCashFlow", "lang": { "en-us": { "role": { "terseLabel": "Supplemental disclosures of cash flow information:", "label": "Supplemental Cash Flow Information [Abstract]", "auth_ref": [] }, "us-gaap_SupplementalDeferredPurchasePrice": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SupplementalDeferredPurchasePrice", "crdr": "debit", "presentation": ["http://www.quantumcomputinginc.com/role/ContingenciesDetails", "lang": { "en-us": { "role": { "terseLabel": "Total purchase price (in Dollars)", "label": "Supplemental Deferred Purchase Price", "documentation": "A device of credit enhancement where a part of the purchase price for the receivable/ payable is retained to serve as a cash collateral." } } }, "auth_ref": ["r17", "r18", "r19"] }, "ecd_TabularListTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "TabularListTableTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "label": "Tabular List [Table Text Block]", "terseLabel": "Tabular List Table", "auth_ref": ["r17"] }, "qubt_TechnologyAndLicensedPatentsMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "TechnologyAndLicensedPatentsMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofAmountsRelatedtoIntangibleAssetsTable", "lang": { "en-us": { "role": { "terseLabel": "Technology and licensed patents [Member]", "label": "Technology And Licensed Patents Member", "auth_ref": [] }, "us-gaap_TemporaryEquityCarryingAmountAttributableToParent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "TemporaryEquityCarryingAmountAttributableToParent", "crdr": "credit", "calculation": { "http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet": { "parentTag": "us-gaap_LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.quantumcomputinginc.com/role/ConsolidatedBalanceSheet", "lang": { "en-us": { "role": { "terseLabel": "Mezzanine equity", "label": "Temporary Equity, Carrying Amount, Attributable to Parent", "documentation": "Carrying amount, attributable to parent, of an entity's issued and outstanding stock which is not included within permanent equity. Temporary equity is a security with redemption features that are outside the control of the issuer, is not classified as an asset or liability in conformity with GAAP, and is not mandatorily redeemable. Includes any type of security that is redeemable at a fixed or determinable price or on a fixed or determinable date or dates, is redeemable at the option of the holder, or has conditions for redemption which are not solely within the control of the issuer. Includes stock with a put option held by an ESOP and stock redeemable by a holder only in the event of a change in control of the issuer." } } }, "auth_ref": ["r317", "r319", "r320", "r321", "r324", "r325", "r413", "r554"] }, "qubt_ThreePointZeroZeroToSixPointZeroZeroMember": { "xbrltype": "domainItemType", "nsuri": "http://www.quantumcomputinginc.com/20240930", "localname": "ThreePointZeroZeroToSixPointZeroZeroMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofExercisePriceRangeTable", "lang": { "en-us": { "role": { "terseLabel": "3.00 to 6.00 [Member]", "label": "Three Point Zero Zero To Six Point Zero Zero Member", "auth_ref": [] }, "srt_TitleOfIndividualAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "TitleOfIndividualAxis", "presentation": ["http://www.quantumcomputinginc.com/role/FinancialLiabilitiesDetails", "lang": { "en-us": { "role": { "label": "Title and Position [Axis]", "documentation": "Information by 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"TrademarksAndTradeNamesMember", "presentation": ["http://www.quantumcomputinginc.com/role/ScheduleofAmountsRelatedtoIntangibleAssetsTable", "lang": { "en-us": { "role": { "terseLabel": "Website domain name and trademark [Member]", "label": "Trademarks and Trade Names [Member]", "documentation": "Rights acquired through registration of a trademark to gain or protect exclusive use of a business name, symbol or other device or style, or rights either acquired through registration of a business name to gain or protect exclusive use thereof." } } }, "auth_ref": ["r42", "r927", "r928", "r929", "r930", "r931", "r932", "r933", "r935", "r936", "r937"] }, "ecd_TradingArrAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "TradingArrAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements", "lang": { "en-us": { "role": { "label": "Trading Arrangement [Axis]", "terseLabel": "Trading Arrangement", "auth_ref": ["r837"] }, 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M.">*3@L_W6:"H!D!O!X5O^C^!N^N^<9N=Q^*Y1;ZF-9D!JMM- OQ5!>=!S!>E2.F MFWCBSP_P2!B6A!5LHQ_@_OY-&V!#_+LH^#8S&CO O=6F.O)2G>@VD(=6 MHKX+692U<K_K!ASL2^_!43W3R38^# <@U!J!>@3%7;"GN.9S:XQ_7.8!&O%TB=>2)2LQ0\$!J>E MH=>?P(OLTN_3V^2^+!7C_!1 K6K\$@%!)<^*Q_RUFFK%;U<@UBZWF3S/M- W!YU!SS4.P2!P!F)>@Y1<2WMS0!>3!WJH+NM:BB7^Q!BZ!KT2U4+@!/_BTJ MLR:K@HE57!9@>V:(I_B!4^3=#<2WL_!R^!987#G7@3W3!LIAMCA? V88<23 M^YOPF!&\$&JRD>_>97!S4ME^*U+16U>0!)3\$.20L.M!%)%&_OH@!2W>10E; MQ_\$\$M^M=2- M&^<^3\$MW:1.M!Z!6+X5HX3M!\$E^H;T!56N^OCMOTF^;H!11+ M^=!8X9J>5!1WZ+2WM4-V?91NW 9!W 6WCCV#::S008DAP!DF: _!J1+NC5U MRP!>^E7E="W:~>#K@L::!PIPV-KRK5!_2ZFT^!@/OS@F:!(ED^K\$9J27<99 M4+G-82@!/_Q#PU_:%US9-WS;S>0!3 =<52)VMI%44#N-MW>

(G:~Z#I*~NWMXV MTE/0~7*G3KT<~";Y%~0#H"5;:0=0AI<Q%V1OIKV~ZDPSJUI[US?2; MVNPN30;:MDAI%>UCJIM9C<#G+<Z>U)OJPIV5%MM:OVG/3R/3T.F M3CTG.AU/K(I.5123PQM7CQ&YA#9\$.~ZYMJU1<@>VHZ*6W/P/D:B/KG.W.J M42"G=N)4+QW9X 2*9L TU.O)06.*6E-MN;2S.R.67%1OIV:Z.MLT W*%\$F64R M12CB#470:7SW+X8^- \$SJI#E8#1\$1U(OUBZJ)@WIAU=&%K8N51~J)I611Q M:G6V#=:731.FH(M9(S9TISZ&V.Y.OZON=P&BYWJX-V<JNJK1.N&U/M1X6FN^S.M5" _@R/HNC;#1W/\$Z)ZP17;1\$8;.6G1.HU7@-8LUXT*MR1C&DX5_F=M.M.A2OU.N#FKRNZ75*ZU_SH7?J+NOND9/CX4@I<4^JH+.Z7\$6<2\$ MYUW+N-WWSL=..6X=1\$RDY#JG@UQTUWJ D>T [VKH^GRNI3AE./+.<&3D5;.Z.MZ/8V) _JWGN/890HTK+>YJ"02"%Y&F6MB76*K>=00.1.0&1G5 LM&[24H2RJO M^C2I:C:"5ST4.&ERF1WJ M:.\$7*K%="""6CWSW:ZSOST+A6ZIZZ+5^V.NZ+U.MJ#++2F?Z)A S#UW6U7S_V MBN_#_TO"HAZ6P#N=IJMVRWA%#% 8/F+@LC17>>8XI6?U12^ZP5CQFF M5%G"V>WF7WI7?12QF> Z8;.+4KC"U/8JFI1LW=>>>\$6?Q.<[GV+!R:GG. <9P.M3BC(I_1.MGM2"Z&FH.5HEAG+*+B=..KM#R00UKGJ3B^ROQZ_0-\$I(TCDOEQUD MKJKIQUKIT KKAU9>:IG^>)AICT W#N^YCPG IY8Y=T^@%7R=4(J1/C>Q>= MB^H;H;%IG17)-MUD=US J17I<&F'A@P#?"7E629*OM;.! M&WG/JE.NN9YNH6D.D5L8^>B+S) 7.U#OP\$YE+!W->SO> 1EH3B5>K72 M+>137>P%@VC!@?""RZLW<[HW]B@-..NJ@H^J_1.Y-8+2U.C3JJK 4#..R.DJ M.UV1#*.OC5&@O?/HIVISY"CAI?PBK&UB30+&-I-LO(? U&LXEJN"-8^MLV J_! M[61KJ1J:7ZLJPDQ6_6J5IM@0-KA)=SK^B6JIBXUQ3[QVTO^12@6/JI:5 M\$AN9+&^6OR.T7FRSG9HGF6H390%T9KK_K- IJDV136PVA^DAB^B/K@+- M.OPOBOWE7^F0RF+K;J2G.MCR92VUI<=4 V.WD7*4J^<\$WFFVAX.Y\$.- 8=8D?I>EAXH3^1YTH9W=R"TR2D%YO"V;1INEC42> MPX>X MU4\$5(8:GE%&^LSP1(/%_@M6= L+NK(N^"(2<1HQ@^@MJM=/(M6GK1^&^M- E3#..NUZ7>TTJIG+MK.FH21^+Z=FW09ZYA-C)A+;[RXSH6WA6Y:1Q3SD13*6\$.*YJ1^86%WG6UE0.QX#BPEI/R.MR.@L. J/:5:WUO^4MJ^"M:R0BOW8LE7R7J>=R1*YP9DUQT"">54VGINC3.* M9>^(SKCJ.M2LJ.KO1K?Q 1764?IE4^_B=S*3 Z.\$'^@ENI RGMC"AOYFCTK MW^<R;JG1 Y6R@L.S9:HJCP:~WJ:CL1-9C.3+ZOT+>1-:W3Z1K1B1.M.M.MK^I4+&SC3MS=5\$&*J1="ARX">5>Z)X13QEP1)J#KXPD NX4=&Y^JT_#3 M:.\$;%U4N1>)>XJ&FQ_UB;~":D>MIGPVE#D^56IU1Q0Q.I^>S1JQ4Z5Y MIMS.4#%;<4WS/2/L.5.H9.2S4&HU.1M13Y>* "IU/S1/GIN(")#Z1(M! M5S;2.9IE^&N9S+4P228PSY?YE!FL^=V1/CLZ4:IBIG M-D)!"S_T03Y%!*2^Z191:JAP_0_>T.&Z@&'G&1\$CPM/MQ\$P721HF3HCCS7I' MOSP17UO^P.SI:% [ZCTZJ2_#_-N/ 1UL3M1/CMX?SZ_N&K_!JIZIOZDIE-IQ)I:QB&M_1@Q>10FQ:0^LQ9?U^ZDHHG170.P1.400QE.7%2ILS223_3WMP.0U19D+ M^TI^14RIE1#7ZS^>=4EG7DUD3@=61PK#9PD.-JL@/26/DUXJ?2W3GL\$J#00\$ (M?2%9OIW%I M48K-YPA+M1WX^216PR.P"IBE"XJ/ZV- R.F_2A2!\$J_N YO^UM;.*KU^TSO M31ZK8Q&Y%ELNH(R6;.)-H/Q05%.87^J/^1%=1^3R(I9I2;12M]TI&S1Y! M4WL+JJE(ZD04BVC#D#9ZFV-QB6E:0)N&O&S<~P81UJAR#17IG;:1I-9'. MOI8NM=\$J+Q!IIC9.9T60PLE@7;-QF\$>>=M%+<5NQ=:?1#9^HM(^FR600= M_6NH_!FW"IVYIQ&OA.UB3* G7G319VA>JH^OF&DBG^@U_BJ7DF8;=*J M9HE11^7O.W8/9^!B-VIS^K^W44JL^!UJ/K^F^*6I9=&X_-WG3U<~"BOJ^"M:0\$01-WB5^*OS&+8JD" (+>J81ENY1#-:17J#1@D VDDZCQ NQ=9LUM&2 M+.Q.BM?^O\$QJ2K2A/E.P=-M9O@JNC^ (I^O/8>+>J1I5& W&QRI**^+K M^ L=:2JEMEJ^>XV^+*S=QUM+>QHI/&@G6;L.;+:15H.6MEF75_1.67IV0.MG^R#CMU^B:IME'_V>0+O&VMJR8IT2PCO3)JW/C42@HOT_J+Q;RL;RN3W7P M13Y\$1>2J5^+9^*F1QE NVO3*#ME3AFM+12K4D^%B.68)5!>=1ZJF53 MJ0#9_DQ41V:V^H^RV:3+1=FE+96G=0LM=H<C~ DRJMCX.H.LI@:MM)SMK.M_0>KL.EZ:5NUP@U^T:W^*Y&T^6LW"@T^S^R=3BLA^EKJ^CNIE.MOX&3OB3E" MO@=5%N90L-R.*G(I9! <81^+N=6H#KJ^F/-9CG\$UP:D)N%>X/5@EL)&KC^ M6NRU.>6G64:C/GX<(+VH:1MZW?W4<05:7"<% 5BQ5=B56C"MN?)^ ML&-V<..M.SOC_&?=< A9IG\$[SG2D5>3WID0)HJH^L(XM1ZCRNO:D C2AD M^+;RWDO0&5G>3#@E:CC>10PL>OH/L;K1:KBPE /N#V04^+&-C3R1@6... P1" M^I2:-71=? Z#^9>_0<835L3GYPP(RULT.V+((^CROD)OS=H0FAH;VW9O3&52EE.%REFJE=1Y M3N8@)K_6X2K@R_>4)!)9NYRCGN=7HW7LXR<JB\$.0I#06VPAI">,<"H&^A MI/+>..P6:'C\$%W? =2K&NB_0^2^CX5_V1+5=\$/KJ1^>=ZWGS^B53+N^% MV4^Q16:YB^RM;G&=<"NJ^:1*4QJNB>YQC#;_!S+>!(1L2GAFV4W+;BL MEY/NR1^_ZX;)I+OWKX@XH50*_U%=XU1^D>EDSAWE^C2THVZIC.YE.V\$C" (MRYVC@ZY:Z=7^F^AID^>_>A)TIE5:2 85J@18J=W(N=5)TV:WW42C&CC=-+O50?VD M^FMJ>CKWIM6Z&E:7'.64=I2^1!)>45IV6Q1:BW:7_-+%/O:1&71Y77V5EM M5= (GASFEFG>JU/K+Ꮄ/LI752.QHH4J_2&3ZX^BP7:Q_18_19 M;=37IKKD1^_JL+MZJ#2!^_#>7J_-ON.T4XF_%1SF^2!&3CJIFER4U(IEU- M;? =>B5AL\$S0M2I^T=C_EI31%OSKH1=5ZL4\$IR>2&1\$C^I^7VJFR<CK^>OO M^?KJBTU@:L8G?27^I/(E^NE\$S_M/I^>ZM- P^EAOIQNEAKIUC7^90IV@<.&+J1J^OQXEAZ=:(TSVH MCZAD^1^4)K&C%&Y3H95\$YK^&\$1X(\$ 2Q;U(WA#F-D)8.KPA0PHITG M5V\$PVI/B6. (.89IJS;J-J-YDF8)"3S^Q)2J+Q_-R1-P;+8E_82^<13OH(M?Q_>B^G WCJ^NAL@- 8!+M^O^EBICM>1;B19M/BEE9C^J00_^C5E_&^P< MGRJWH?>X/XF_YLP@33RWSA3JXH87^K6:>1)/YHJ\$**OZT^NQM^W\$G3GPB M?=>.K;IJB::7+3//23O.IQTR=NKG6GCUWZ^4Z>' ?/B#8C?L+F MZ^W#>=7UKI5107LK>~M:."O@I^EAKZKH646RH>7M23I7=AM6#51HUVAI^CU-JF17M/Q_Y72MI2QI_VK82U_MKDGN3RI: WA4Y^&FH61WXVS0? >N2^H\$J^XN&W-WP<.A1&BEJNR JFNKMS<7 MY5ZU:EE^AS>@8Z_@H.Z1:X9B3K_3^\$Y8U^&^GSWO.I/OINOW JZSWRIW6OIT^?&:CXWAR"/I&) M.3+>S(?S)&*K146OG2S1\$1)A^6>1RBFIHUOY?IO^?FBZ+^%NYKB5^63DIJ M^YY^OTM4W^1^U TIMHQQ?3I+V^:VSY^JOAF>1-BZUR^8D.9F3I^ =<C:YIYCIDKE41=%MJ^*#A@M:9N24RC.%0DT982^_J:F">P^W=\$IB#BS51 M?21RFLBH3BZ71B=-_J^KIPIK&:CO15D;+14NEY&D> JI7J1I8.&UU79C MRE^L1&09*2I3T77QR6U5!HK15CR.807^0.6 M^ZR5I1 Q*%77R2RIYD? 5:9;-@XIFO1DXN^IQ7 QB7?>:K<83WWC^<1=SY MQF9S9_2DNWIR.&S.V0*~Q1^<H@F&PPP+K:6@7/LZ:2Y@XL_98YACVEXKET MIEB?>N/J9+EZ<1D V1QMH'6V_04^5JCI+&QC7.AFV:4X?">4ID5_? KX&S\$ MMAE(IQ2^<JFE.SC^9R.@J0A^DL^<1^9JV.&R5UPIJEG=2^U&1+>KOVU^DU M^A00AJZ&@+*0.+M34A0Z=>1^P5?P# J0.LNK14V/9G^/GWMOI?Z6#6#1X M98D^I3^*+2% MEHNERR4VY7- B1(*(74-/0FEU#L&UWEE-(UN64^J1U3BSV6:7QX,I):&/ M3N&V% "R24YCI? [72.CQ> IF=.*B*1P**18/I.N.4.G08995[10OF2/03^Q6 M^5MSO% L78E#;WMQV- 5+TFYV<6+X.1K^NX^A10:9^59ILK.#85^IX<292. 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B&.\$S-BPAVU^WYKKS.N\$-VYF BMHK.Y9I292M^P< M\$Y6XJQ04TXJR7? M1A.IW-I@E^5Z#_I9+>=EOM)IC_X#&#<14@<+&1^AP M^XIEKKZTFTU1^2A1^AU^>9VNE^ 26E5Y1D9J\$S@1%4.M.V1-XWD(4?M=5.RDMM@K1O<1\$=;U1J:V1B.4(2KNB_K>NHWRL2GZ5&N M:*)J.-& [126VWT^Q.KKPA^IH=KZW2J@RR-."6@7IH^D+>HU5.)K7^*21 MD^JAP^K9UM(5-13%_IY@_SZ:KUIGW.\$&@WCK^YU7^4/!FFI^_>339^1O! M3SUC4Z=C\$G5H^1OY@#M@>Z7K+>^3A9@~.9(I+>_T/S^2V^4KEU^1_9-JE8 M^BZ1<.<3BH116N5WX)JD81\$ +:7B1)NARI1/G1N:PHKD<""@J1="1HR:2 M>NEO23>8X7L2O1OCJM+>.<1J:~+&1@VUY3OX=<^M?EAHKUNY<&4_10+^1IJOWIP1):."R5EN=N:60 MG&X^DE_BC_(1EEWQU6EF:7) BOS@+VS:ICO^>=0+JU^H\$%Z+>D=@:?"MY\$41IC2(P1EB?\$4M?KJ_U:HJE1 M:1(+S1^L-C7-M^8ZP1R^JD1.? %GRN\$>:6_4GNST^5A5BV86ZC.%8B=PALW M@9/F:AOJ14/FE.FL5HQ9=V5D1^%>+&1M.V=1+.R00%(H1H1.L M:~N\$:(1Z0+&S1I4131Q21)^ \$W.9^*P^X.SB4ET= OY.MTB-OZL.F5B6.#&JID)M&=ORJLR4) T1 M4QSAO.#HJT8^JG-VIE7@0871/J+./8IC/3F^*6#0^19BN4XYEBM:>5ZXO.B M19/L\$D6MDCA&V3:D>-1&S1:@WL@C31^6@?=>H&-IN!"706.7Z_5.=CCPZP M:8I7@4(O05_@:3&(^5Q=1.#OV6DWY^!S?^KGFXG9KI(TC!Q0LR- L#^>Y>^YXCH^9A:)^D_NE> M_81Z^CQ1^*/BMVPP^O#^?7PI?E8N:K1 M9WHL+CIJZX^P-3SL&@CW=#1^SG.E0FFPOB.F31(L@O.LA.%HH& EMO^A MXX&L=F.W&R27FJ1D23?2E@/GZ^+Z6:VU2:VMNHXL1ZG6P)FN(H^M6?>^>^&BF:X+DU M/@M^4GQ.=YRWE#K?^("S16@^N.A@K_ 0\$FE7WYS1.82N.:Y2PIO&X1AD59^ MMN15K00+YR3A5=U/L.O.QM05X@6M^M\$N:U4&SLJG_U7MDZAPYTR^2W:F8O_MZ>ER101G^4#8: (CQ)=(I^Q^X:YUQ1\$ML^L_26B8H.M&IMVY194.HJ\$06S@> M+JLS(A218\$M>#Y/G:JB6W<1&7ICRZ5-L%ONF\$:%+P(O< M=TK0@KY\$? G+Y)EY>RV17H1\$OEU?^D)IHZ7P^!TT>ML&#&IZU^+W@W^C_! M M:1YU+X2%KT1N%JZ4U^!L_+PIVB\$EYBZ/4RXSL66QONIM("SHEFX_Q? >IY&7/L^7=Z.9\$VP8=\$LSW^5W3% M1N7L1L50)KH8\$A(E1G

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L"80=,1*EA0I0N6B3JUC7^9IPFU<S|I?W"SC:6HGP9Y ?B|I=V.ONR#&&
MO_ UVO:0.8HK7QU|6>E.M@' ^KSL> ^1E4ZH| CE3A9%GTF1|7K+|>?"*8|/C/E M2?^ .!77TZ1A VSR6/T+$|77)^(C/R :8PAJ>7(R PA-W; 9#)FC-.NJ|T|@W
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|@^.; F6(U|JG3|0%+1$S$UZHUKB05+X_-&0+@YK%"*T1HU(7U-FF3$JLUT|7F99|PU4"GVOAUQJ|D0:0:6K-Z^2&6YU7L^@.)JHR6B&DU22X:"MS-
E2$9SN.M51UV.Q'H<#&BP*QM-0"BU|Q$>2+G^ G^G^?PG6^W.;' 84_YEN|/MO.A3|'SS76%J_C:7+6|^5?"& MP$D%L:ZLT8GRIC_V6LTZF>_71CT-
^U.X59.170QP<|T>5|Y5DGD0VC"~35D M^FU(Y|U^ZZ/=058^|JS|T5Y1M^&SU#45#GHXU!0#>T+|2X&=;)4XC)&2S)Q
M|0%:12M,|B^@W^&W12WAJ|T^<N^&N^&L$FAN |P^&N^&TK>^<SSY<^VB4: RQ_ 'M&&=&?<R<^VB-BYF#(C<V|3).WE^QB9GZ.QHE.,/.;C.=0?
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|YZ2IRGS32 47EJ^|B175|>NW4D2.D M ^|77 |E|P7|C|MP|.#| T.+U.9STS0%USP4^:0=7>L Z70 M&A7QWB|?+G^4RG /P:W0.C1^0XT.^0JE-
&:WVZ2;^VU(71RS^5VU15=&# M=V8B(AKNS;:&_ ,|JH9R^|@|0.;H|! U|(S9ZLFS3286)Q|J.G,GT<+T? N M4C EKL^HT?>.,CDJ|5VL8I4FOS 4
QFGG-.VUBUE).7-.TSC:|S !A_34QP:=BU(-TR|)ISC) _#XHR:TE:%;3IW8*P>MRD%6:A@^ 2$^P^&|UE M|57FWP76|&| +G/7C2X6?<C#DOW#
2(ZT""G@|S|B5..@)CS9KD$Y#< MF>|C|Y|K15|G0 _#<12.Z|4I4AW8CA M=-W7R =|QQ>S_ X=T%7AID|<@P* MSU6&TA@<LWO.N>?
9<#H&9YMYT D+;D@Y^H|2XRWZ0 $RE$0>|@KE.#|T= MKA^Y|@PX+ |IP:6% "%Q$T087X2B10<%A+|7' BYP*^NX6.6 M2RC^C|K-
$S$TYAB#B4^K6D %|B3|H9D^C1X|F&P&R$T>6SX|O5I_-O M0_+E74#8/D^ACBBRI|JBL@98.JY8S$-M&VAAE7-$| LPQC:YDM:ZW;JVNMS:
|P|MP|T|T^V4> M|>1>=M9D>MO50?>DV8-4IG#$41@+&E6=E.488#4^* @0<^X.T-ORT:|@NU & M8)NZ|N(RBSWR$*:"$|S^7 MF$V.D4&9K>_P
(|PT>Q^$|:7N8*.2>QY.X|_ 2YCR&_ %76WC2^2^M_L@QFPC>T MSPD4^V&G@E508|JOG76.ZR3R@Q^Y^Y^ZX""*6="*Y71A.V2+E3|2HDZ4S_PP
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U%#%<@L'#7YIPIA2.$F/C.D05ZL^*P A^UBX=NXE$|+>_ VIA|PB@VPW-#P MM*>HEQYLHUG DT=F8:@_XVNC$5K*?K+RP2)7C%)>+Q#L10_<#;0|G=R?
*K^?G MMWXX1L2B+&R_ %$W:RO^%0O^K$<C&4:UOKH^M.O-ORAO-2BG$ _G|_!$F1G M8*8<B^#@0M|?)2ERYF=W_DAHDI/ ZN?
|M(AR4|UXUY">90V.5E|@^$%|T^T%)S_+Y?MFKIA4:S6|S!^L6X8=~=8BA^VFI^X1?>+654 MLZ!6;
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|PHLL|WQ8,W=N6Y^_JP |Z|R| 1X43R|M+|98HL$B;D?K|Z B9|16921D61E@T|L+>+>|218=S4F @/|F| L25_2 MP@G.OC-9A$66%XXDSO|@:'DCD|!-
&@.TQ5SLZ9|IAFK |12?WAH%6A1C52LN|F M,2 UE5.@:H7Q-I=@T>@G>A/O/_36Z1L.%1^142.CT%:2$L:P=D8@856MC|
M$AEYO|8|1EV<+>V^ZHE^W^7^M|J1M3C,LC$B-!7|VH:X|*|JDFB|P>/6(4 M5 S_ "PTPO&X|!AFELYC^5'N^0O2|S?">2.VPH 06- 6BI&=<3,M^(|GH=A
M15=0_!S"">1&8AFCSD^"X4Q> R^5Q4@|I%<+>|4^CYT20%|Y^F|OR842|ZU M1H3M+|>=GOY^I1 @140O2Y2MT$VO R^A5=2MYN5=O^DB?^6?N-
*PE5|O^* MU05269|2.RC3@<4R&*HC||WYF2.S&%TV$X^"DVMO2|?H^?DVGGYANO.IS-1 M|8-
Q:9VK.32EX(TW:U?>|G^C_ T^A5Q@<R^EB4R^J|XKO90%2).?GR2NCE M#B@WD^C>?JS|L3^E^X|JLF2$|T1>.EFO)|J=>75GA(D&2L/X%1 "D$P2@X,
M&3E2^DOH|706>6G|6Y&C^Q^O>OH./R+| (EN&+C M42VTHF^W>L+D L>J|OPL|O.K^K^%|P|D+>|RZ-&%.|RH1 YP82|DI
M6GOHU/^H&T>X4^9S.F)XW@|9.9DA/%4H6VOEX|JPF?RHD%|3R&T,|R6DP=|F M.CO134@Z6^6=R^F&6Y7|0,|W9<+&(F0^C|PL6Y.#6|!-
PILLU5^8AS>=>1BO8 M|DTLL+L |B9|& 8IDX=7<|Y^$B6^1L-D^O(H)9S07C |YAYGW|29KRZ.4^& MG_ "N^<0L13AQ|H$S^SX_N|."1X)"==8/;:"EH-3-2-
RL1E1|5G#H$4#^18!"1 M:9KZ$6GBGOQ=0=CFE|E|PQ-^UN$60C1R_ R0ZG0H|..!:"H#(N$^T M^QC3K^Q$5D20.C.C$6&(D?& I'
T2X">U_ OSHU>C-.P^MTK80U.$%MTC|U:2 MK|E/WGV2N7|9+>M#$%A@.&)'M|VD7&N2;#LWX8"C M@XKOEYR^>3$G7|CZ9
M^DT.F+Y|IR<.>|5RD| CO6$8#;).G$H^1^%KQ6LSOO(X7.U9IK+&_ K$L_8*L MN^LL^|ZA+>B^Y2R3%&ZR1F&|PQOREK>65YH.^L<=NE#HT&2-W
C9=5D|4S M""#V1 M^*Y^"P8A&9.HZ;WH^&PZFZ9ZP^8VZ@;#1^4B$|207CS|7^F/>|L |L-ABCI^|.I^#;#YC5IFAG_?DW^X|L M8DPPFKF?
(RZ+|VX$KMB:TYL2?)(<G7CY4)CB|Y^B+&@-(QH6IC2Q/C|QOR; MRAHF4.J2|JF6|U.O|V%G4%_#%G+&L|X>>HP%|>HB|?2QJ0>Q^5F.LLF
MTM>0TA4/M9(C_ "CI^E|!>Z|A|L^Y^59N>RF6HCG80^8M MHQ4 RXRA>|V:8QT+ES.A_ ^Z6.9L$F^H;4E.36Q""|+6C: #D2X7Y87$ MP)6C^T4|E;4SE?
GP|^W:HJB&OOUK:LB|JOFX^ |B1.;=|J:78 UN$+0^*P(C MG6#J8.WPY|G_P_ ^|JLSON5.=.^4PJ 0GA|+>2^L0@KKAX>Q$2>C0^|@2
M,1R|1&A9M|Q@XY9>=>+&R.6|1AAL|9&^?2$>TH<2.CZ|+>+|2|J0T<_ |6E@CTL M^6.M.1Y1|Z55+FG.F9L2F7+B.,L.D0:@:Q$;PC. (6C:X
Z>78.C17LR<15^Q@| M9Z:%vH7#|^502$?)XRD8SQ%5|30%L&4/U-YB9A^ "WPI,5K@?G;JSA2?"X M6E|L|L^N:)$T=B-5&OM6OOF$|9#X7|#+O|I"
|DV^Y8_-2ZX?VP-IT(7%|^K^M_ 0_0.R^4>| (U|E+Y+M^8&M|W^@21VF|O(R+;
MY23P295OY6=DR$Y.R^!|."C1,W=>"KE/E6B)D#|W. P6:SAC^&0>9E11+3& M^?CM>HVZUJEI357YRG0L)) |A&S$OBG7U=Z%:ZZI-
T>@|8LC4>|B.>0U@C.,5O9 <+^X-EZLYB=A=94Q+P1 M.(^O+N3A8VTG|=Z&S^O&F|J2HBN+H|X04ZD;|^C72L;Y|^0C$".S%CI=>J MYI-
G:RZUOZO5^6|3QD)D|W-KX|Z8N+7Y)B=#0@^6|I$&4-#-8=E6_R^ O^Q%G_ (7@<+>|>|OL^A|RL$|K1K_ ^|HR7B^|P-G)9UO) MS
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=!YF :0G=>*Y1?+8W,1(-C(U-2L>MN4U>+4/'KH\$W8[V\K5:X MV4EI,KXJQ?P]N@5M1N;[W=N1OF+^\$@?TJX]-PM #R6:TNJ7]IUN(1\$ M#MS-
T4=-,A'T4\$SN;4WE9F=SX; MX@/50P\$ TVK;^512A;^P1%4O>JH&2 MB-Z&I/>IV ?SI:7%/+>N8TME,MA)O: W\$VFG6-4+Y(C3A0IR-O<^I;WBEO
M,0#5 TWICJJJ'GK'N:N N;^!@/J M^A^Y7 =7(5?JIRV.# VZ,ZO%97EE5AXOPLR8WZ'18). 'SU%:N\$/Z1KA=26: M'&KM7O QR7?'L/I/Y +7 ?V:Z17
K1.%QUEI5Z-E>6 H>A?Y8,*%6A2I/QF3'G'9J\$[*QQ7EH PR<;KAGM:B/IS< MG2@3/NH6K^L.9@/#,MPQ,SIIJIK<-
I'DC7I'K/I3]JCI'ITLWB) M#D6H?>GQ MKEVL?=:TI'I9 \$E0PA'G\$. HF?WK3UZT'14(\$ ""%E9\$?N^TZ9(H"HS"V^5 M>^3L.N.DI'F-)AC9I=,
[M>BYMZ*]OPM# /9E'(2KU)>52CUO:SIU 5*7 MTJA=A.G.+>. ?ULA*#'/RR6I'5*6.8JJI)'P:X&3/T408J\$PZ>?X+C ?-(YD M@3I05\$#XD?
CWR\MKRXBVL.A8I>QXI/ETI\$9N,W5PN'5)"0@<@R7)I3S@/, ML7?'5NW>0E? %6AOH). %RSHS?CO MNO.,H _B^AO*
M14^QZOI(VULO.:@%9041YMG(CYM64EAO).%)IB3:OZ8>AX/H ^H ^?@.0W MOOLW AM>.'919^&
<""*I&CQ1?P7G*RRRB.XBCYIYHR'XNPB#.S=\$<C.9Y&:= MJ&^Y8#/'J^-R=LW 4?LP#>M5W.PC.%@7I36IN <:;@5 AI9:LM^ 2I!:=R/I
M'\$%#Y/#SQO.:69I_2.2^Q406E(WB)K730&S'3)982# MRJ XS/LW"!ZV@I[#%3SMW@ZGR8RE?B\$@:*>)-SR1IC<:-
N:NYU%#NXIR<T)CR'=1P^#@D27*3JSA MDSH<+<X#GSL(WLOI:..''JX92'R;^&RII3SEG(4)3IP 07I@VN/@7:H6CXY M<27AP3Q^JY&-Z4PA/19(RL*
X2CI\$9=N^7I)=%PLIEG. @L-G#13I]DRW)=1^ULX9I48VNZ&.&IE'^Q2'R- MY2I1(<I|TJST16GT>XQ|IV'50(GW:K4L1NO_KD09_ 8R#H14HX:YM?
D8(%M MIUP@OVA :&RL37+>C:Y9#957&?DO)*W MEO=KT ^PA\$CYOY79W:SIIG_)A5S*=:SK":F6UU(\$&IC:@IBDVIB6\$&CNFK(+
MC>+>PI9#:@1#I6F3)F5+NX(3*7Z1<^8ML6N#@H.L ANI&KH42ZAG(H2AN/MH MJ):<LEJCF '<.#?
2&.@8 IOEX/H900&7\$=:G J>+>U2L4\$<04FGC;1L MQ25MEI'6?%'SXC'I>TII3:(I5TA97G1:6.+:S>20575A=-N1073!MI\$ "P7O'B
M51>UPPT\$*.#N+^Q5&."?2.XL=J!%GUA^%#.%KS,!!"W"45X:N?#\$A& F>DXJ M H.O=QGZJ>#4D+YIV7H1E-WHH+).QLXM8P\$V70_PXJH=1N^L>
((%4-TJCD) M^=YR-EOP =+BH'LJ\$&6;+?QOL&RYM:8KLL.G.A)"PJM ?^6X3#CCQ^+I\$; MS\$>CG\$&JECI!
<*)?I303N&M&BVTCT+X.YOBBP6<61E@7N^N+>+Y&X.D)~WIJKO=UI360>9QI 4DVKX29.6T0I(%N4*YIC2.^ (9 MW:\$%?
YTWP"Y)EZITVF+W'OO*CTXI 3:GW+7T&Y2V-0-G%#2\$'IO:3T)#4=YQJUI=Y""USL^JLIX^G MN7T7OCZ-I04J]2*VFOMO1LRZ)B?:B'F(S610-:?
J+V<:S9?>22C160>B7PV=U<9+I@HJ>104U%2 MQ(H2I-TZNZB"/72***)#J@H^H^SC\$?I:C/L0'HE^=0XR19'L7L(WC'N(#4;+J M(8:XKS^L*X4G
5%2U:OXZDNO?7CW#9?R>^X\$2O6G)I9JYZ/Z/K\$^H^3K=RGMI'N M?#V""QIT#M0" X(95Z)R#2Y.BH78FT<:=K=RLS<=^CX^I)1F%45VT-P/K2Z
MPV=PD>VX5@<&8?< BL-=3F@?B7IVE.<.*'W!8IJD^*W#K&BTNPSTRY& MUK!"10E4_LV(064N|>(Y.'9(A.=G.OH!!UZN?
WH<6Q<+>5MT:CI27I(I MIL'NSP3K*7=I|I8"NJL.NH.8>=:MSDS. (=O(MJSK(>7M1BIJUG-B:6CP00^JHQ1F 485IGQ <+5X(-9558MIBB*:@P.!
*YC M3>VU?2J+>F93?NG6Z W^IP-IP^MI' AYDX..8.'RZIM.%LPV^IIT2 M<2IT0>D>^CK^2<3QX I:UVHCZ3I=:I.VY%UGFY; MLW&ZO37IIRAZF%
(P2?#AI"<2>6I'8@-QJ:\$2I8&I@/SP-?>5C.R>PLI\$'Q". *SCM\$JL: QI'#<Q:IBJG)"L'=94SDU#TCEF I7",_030_KO>^<3I:NO..
MWA9VW6=3WLL2>NIG).KN+I_ 'H25&(F-5LU<I|I'XZ9VYS+PQ_031%&E7B(M1606J%&E^I71R1W+XXI#S7:"L9C(0I6H-6I<1I@=>8Q9LMP\$ _'O
3I5T)I|I\$JLILZ^ZU MO!NHE'8:55WT#E.%01ME@FF@/I@M@LDK87_I0^<+&4#ORIS1B I>5 MPVW?XOECYI/!A=I2"/M+CS D PZ8I!
(BISH#F+1+DP=HY%FKGV-9H M-F-7P<^F:SRUB>B1:K1 VXTM _A8.V\$%K:X2E!+0.=I+C+6_80CS/O5 (T-VW@I0D/8X42YTX6 M!|>?>
&9(I&)V??P3CXY@I|/ T7?>NK.UIXEGGYO_*01FY\$F)>G>PVP.^?: M3/GME/W(+@8>7?X_92Y^8< 7YPR+4I""*C4J)KIS T92UL4\$ -I.W.\$PIA
M7I2":H13?>B1R#>#.DA*AJ:JER3U@R2N(P^R^#)OV1-UC+3GL_YQOXYB=-^XL0L9ER=8_1JD"YIAXHII)I M_G?+T">YH 7?:P"AEMKHJ):-
PL4X5V1ZXV\$-OD.*+=?7? O M9CQI)Q#B'9.GHSICI? \$I0K^+IJ.\$55YK6.2IGAV47W>6GSPA#L V8N:B&: MP70@&-PIZ/
3AZT9U:FIJ8/X8_8/OVIJ<.OK"99W6ZG>KSK-I\$ I9IH^ZO M>O.S+Z1I5R I9QSSO1X.'D\$CV1N-80#?GH/_ 6*EU44BEPE:>N IS7T_TDO16YT'6X3OY+
MMT>5Q&Z(E:49F3.V:*@=ULDZ>U>: G.9-3ZYTN0^YZ6'GK^AL6I)KJOM43B3TC2.PR M8.ITVUS.B4JEBHYCYS)+W"Z5I136I%8C(CE5-!&QK
M+UOY5X_R(GI90X5?2J,I\$U_*)A.F#21-LLK6GNR6L1<7@P(D+@/3B@Y&V M:ZU#SKP_1/I)*+ 8>5J_3EOL3CAYNOZ_9&V:XD^_6X_@792<*J-
7'=451 M\$*(I0I70L)P:L^&U7:AACM,8=H^VT7:.G:ONCV'1ULM(BPHMR#GP1S|I/C L^DL22+LW>7H0?DBA&B!^7EDF3PH49
MINTIUI5\$M^XB&2H.#IR =2>WJ)I=-%CQXI.X.W6_9F5.P#S=AF"JI+S.WY"3T.M_1/#5*INOT)2AN8?A"CY:ISIVCIT\$GOW(D:F)I2QU*IKR&I1/T1:
<92+>#DR M:&I6A)IXIAI:KZ8.A.NCIX'03ZDOYTFYO+?I9DBS+>H^VA)@P: UZF#3K M1FP8Z4,RO7-X_<H BEI/A.O:&S4VFZ9AM^>%)MC1RRGSX<-
2:29+8&W0/X MLUB/OHW18(FN'7H^V&I&:S# CLYI^9'IQ@Y>A<^&PV:@24(RP|_D+>P:3N MA:TB1IMHRCGE>|&4?T:/38CLID
VL%I'3Y:C/X^OUVS^XL-V -(DY#Y7YIP MXHOA#@^<20@N'IXDH6D)I?M.^WG M">I).KYM+^C@51A3M^>N)I#AP64B3@NV-
Y(4I&G\$5WOIRO2OKK?@1FR41+^MG%:OJ9?=:TZ3FP4=D&?D6I|G*Z<^&7C6"2<(<'W!#9N2Q:I\$ MGE?B+>^CJ|X=I+.(E09=|@+/%WC9O@OY-
Z2R&SG_2I8L5>7K-1.QDI@A.P1^%C M VXI^I|I^8&EGYS6+U6ET.L_R%#6U6_XIU5I(TO!:=BPCS<2I_XDNJ)
MVI/X23+D\$S9X%>^5*MM/5I:SPR%OX4X&Y?0A=KHG/--L--GGNYP8\$ TY> M.^="4GR"UZ&H|_1XR-6I M!2.RVUHI AEI!-(JCS_V!FEI!%-
K6P3/JRX3)I1M^XDLI:8\$K95 MDI1NR?AM|JR_3'KI^Q5HKI:G.+3J|@VVHWI+^H\$5O M>@=?+>)TD3BCIT:Y^I\$#?>@YMIJL)\$5_-I| M\$W\$77-
OID'D'JL|SICQ)QB=HK<=P7Y:GX<-4IW; **7:3RR_N>M>29E2R9ZOI?I+>RGM^9LC^M-8KB
MK>@I3N|_N6TWDH4\$1AR8.15ZPO8#RMW9"/N6'O:+PR>Y15L.M.FC)I^E^#+(I#US+ B9T^&*4!+6P_M_W2\$B^G*G\$A/J-C%N|+<+
M\$C7.S(O^+MR=IDM67NBF^ING15HYL5)0=L>QE3L2IN%&6N|FPI: CE)@:V M+SO\$,<6-6FJI>IU1M6I5.JQ2?=>FPVW.K74/4N3I|IXXSC1WX\$1A4O(-
Y\$5GS MZ1_1#1:ZPO0K7\$=UF^<P"Q:(2ML3E4ONA9Y%_2B2UM5429'_Y9)6LU>^<O MD3A I2:N5RNT2XF6B_H'JXU@W.:Q";I5DG
Q<./I0557LA^@KV?VX/I8?U6?>IU:F)DGY:(\$<C8C!MH%# MJ?7:K3UI=6I.J+9#MPOEY2I>V6Y(F7
I4EXOT=5\$A6/3Q_?SO0H%CFQ:MHV)59P3%D6+^M%&I>W:&_WIG3IP%?X?IIG0-OS5KMS=G\$NIGAZIQUZXI>U9YHV%BF(*E&YBJD-
I4ECDP15M*%:1RUF:W4JPD98?@I@MIJ%
M:RL^O*%+*W\$&O!1HUBCJ'ZG6#*C:KHHONEFAF!..O""4>)=;I>A:MV=2=>CF6W;VZ)MSI.V<<+FU0&ZPW^SC2PG.BR'3LT/A'0N:I#1%
(SE%)4F#IXI?MCH?UQ.HV0NOIR5-2CC@: MOI(CQF08B+>EJ^HL_7IB8>\$/G1^4'6+R>SX#I MV\$483I'P/I^I7J/-(R"\$I:EQ2)S\$8.+8/1PU.6%5C6H8
MISB|F>&3CU=I/^T7IDMM6I2<8Y&L=Q(RR#IN\$1%RK@A=I<:j%V90'4.'H M_X(GR;>IUS^ER74H.)I9L_3E/U+OC&I|P.<8/A
EXA&H\$3+I0C&05S3<24IVSNJ&I2LIG %7UB MLYBN<A-B<4I|JF7I)A12UD5=I8 ^RBEZ-IE3.=#IE+79I8.^2-8F7 MY(I+Q6+K\$>:39'G'4)
YSH41KNPJ5^C/^<K-R8W\$IIZIS'I'R_G_D3BS MCHV#C73O.NL=&I&Z<IXPW/Q%I&VE4NO^IL HO#SXIXU6:0=1RZHG1#NZ_ZX MO@UH I:-
H'3AU\$-IY-HZ1^UWIJ)4FD^D%1Z^OOE.09UZTON#.*YOLUOQ+4+ MF312#P%M@A^VL_*LB\$O./I^?7P*N%5*:OF^<P/8?7\$&KU_IV..? I"
M2(LB>_.83*\$GSAO_LI#U/I:-5IA.>XJOI@5""CP1@. %LI@I'U^DSI7Z5 M4(L.GIU/PTY@I=WPEP_2H>H@V-B:"16SUF@G\$A=QF%)W>(#9D\$5?"_Q'
MB6E(P9HTM(I_7VYI|I^OR_&_0=*^I^A^I-33/^3.I?DICI+XX<>PY/L.O#4& M EYYS8WV(X!I)I6LYEC&^LZ:XCI"N^IM84IT23M(
[M]2<:V'I_U^:7K*PB(\$N\$>=>^P1CM*^RIE_J|:I|PMJ# M4 HV 6F"/TK M'6VO(I&W3|/I: @>YHNRCIH8.5%F)I:~99*G\$7&I/O@*C?85:B> 3#I<.
MMN):G. "\$ E+>7CFZN6|MC9.=3VITL7I<I|IB7K|B|IE?<O IBJFVIT1L-MG M24=5U9I@&VTVY5I|I6)F8#&V^UB=EJ|I8:
I05F!I40^MDPC4>1.@R9#>*H M0*81^/^8O7S^V EYH%C^Q+^GD&CUET:L_Z&L+H<_G!20L^M"O<@2'K3US\$! M:MZL:I1E6CU9N'K5!%-
@6.:NT!VV0@IRUG:B:TAI29DZ9I|<I0I2>T8DHG; 4&T'I'F=763+47R(6S\$@:CH/I@IDUXO M23(DGK)I'E=SO^<00-
>B6IPG@RMN=:WG3OAAH'DVDLOK3\$TFED9^C MYK8>COIH:232839F6H.")A&BG;:=AWTDADP SXI_Q25^23-":4Q(W.'M@>C<,>_7
&D.HD54252G2Z4:'Y<-(Z V^X&4TIORGFCR2VJ3GU*-&P.F3. M+I022=":<@IC|WSJZYB\$G5)*8: P6-8J%!ZY41C6I(W;D MX*3=F-
I'KKVV+YX>+>Q:9U^VHLXN'SH_7%>^LV UN^K<2@I0-C-!YYJ*5 M 58%I|X6'0#9_ GPP?LQ7XDTWT9HJIVT:V3=M+>RG=MZO:WP1AV&Z-1CK""^
M.\$H67EKQY5SZEDDHMY 2=-MO?>V1+I&:LL0P6.T_RURWQJ\$=HU015M M: Ii6UT4A BTWSI^N09.+7>6R#0N"11JFW:4
M'.DMSSMO5X<9)Y'3>DY04&A"W@G1GHK0B@H""I@&+4 HK:X^'Q1> M==LR.M%=\$Z^W3C%8QEJM R:<:9DD_ZQ%5WYIHTD:PI
MLGA.^E.EE#33.G-L>5&^F2.*UE6QVG(X-XVH)Y90AB&S0Q^ZL-3I):O: M3* "CSEPIY<=24:|LMK\$*&%.S&^+8C&DE^3LV+I^TYE"1'^<9V:QI%9(0S!
ML-VT3&PSX.2^<=&OLKH:O MWI!"M+I68>I^="I[M@E9'5IFV:0*&K:(OIVCL)&#*AR-N M0525AZC>Y>1IUEP^R^9%
5RIQ>./P8I>4RE436G+&W""H\$W127I5MS MS7ID*>I'FKKGRIH(E2).I4|JA.EER3\$IPX=:F:ZRD_L'JFOSF1#?/((UW%6>3D M ^=Y:C/L>QF@92P/4-&
(^S)YV12#-N\$@HDH\$ 5G^FVO. ?W@N-N-CXOL980 MN= K=WHOIL+C2^DS2^SZK"JR.D1#IUP:8DI/7@I/E3:#A8@EDZZ>5URZL8
M:Q78I|J\$8L:ADJOX#IRZ\$>A1K\$EPN"LM?7%FVSS_5K&2)I2^%4I&I M7/ 4Y95:2.LY^+@A4X7@H3C?T"IOOP%)?ER9HR9Y>2
TL>NEOZIM7JTIEGT M(I5+CI5OQPNBL@R\$%MUC52499B26OETMJ%\$SE298YV1B?>2B9?PEY%:B&>1D MXRI&A@Y5,5<2:OV.3OE0EC)S
M%OA9J&#<5%BJN+0\$/ID.J<* Z8#G10"INT.3X/@&#L RS^>
MP5R2QSVY#8^CXI\$1IXM*)T3O@MXUICHQ9HB)IU.O_9XH9:X+I3"MC:6JLF|EW9(DQ5K!A)T6#A)M
M.'I^MWYB"#+.#.64@I(I|H0.3&8&W:0.5.Q>:CIQ>I=KS_7=:ZRM'G1I3BJTDYBXG_#VX3ISS^3\$?64F5DZVR4YV^_D1\$DO"9:U-
D:@:DF|\$>MOD4P? MEI^-^"T_HO)T^I3IYYL<#(/?+XFP4:R'1UW84OUDZK8J2C=4D.:MILOV<8-S M^SNF?>DJP<:
I+ZD8FQI/LGX(CI|E|Z4=I@Q.S.M4C\$ID.(9^CM%76I\$>>A MKM^M=9H2\$G|F^>6KB?F/5QZ200QVJE!*5IY\$8"7I\$FYFV%*W)3-H_F=S:
MOL>LU3R(K%V/I%3&6I&=ADEO'R^EMIGT7I)I.L_ J8L" 2F>:I%U6F!I M6WMT9<<D.5H)NWA:6JJ16V8(7#I:HXKB75&HCDJM I4)T.J&G\$&-
JXU')9 MU=7WN%-VIFL.YIQP2C8NIKA:M= PJHD5#MEC8 RH>JF^YKC5#D1F.=M-/
MP.IDJ:IT^Y#RI&N(NXISL7>:;>=I|IE3&Q4ET.B6BLW4A5UI22?>0>51% M7.GB35ZN:D>BQP#O>0^Q/8+^XT-7N.^AT :RYR'?:
(ORH>EY4M#JKZ|ZL M0V:ULBT0(DI8@/M^K@H2TVI;0M5(DU9R.Q2L:IN^ZO>30*6I|Y%6\$GE:LM M07P+6GIRD2Q@E!#B +5>E?
>9?I8ITD8X1<0+Q*N:1_..85&^Q^K&\$.7GHY MLM4JFV8VUDWHA|XVYD3Q6A/D5YU.S/UP#0TI@
M:9TWI^R)2BHI|VDY2#EY&+&6^NDJDE/3^XYI:KTX7->EY5>O^Y^GW25>E MEI:W#U=:CB59-IL=>=V74:05:7_/CG\$@<_)HRC_7BBM82R|0LNU?Y?
@D4PI M8OT4."8838.G6^>NL 28\$2I<_AU0#6*"E!OPM"=P>JA9I5UWY\$4S2I MN3C2\$X'G#&B,2UPLI:ZTII>H4E(LDQI@D"9-
QBICP/8#910:2D4K.G6>A>7CN8X=>?>V7DDETI'U^G^RI'ZIT2G\$K&J3T-BYI0I?Q(E I0:S>XEWZ*909P*1")I^?Y6 MJS\$O:Y^I^(-)U3H^I^H> ?
&_7C5+I):^U)WS^HL+I^Y=N.M7Q:O+?>EG:K1^Z3+.^RE4XK'E_-FIE3QIA.*V-CJD@Q=R>>W>*>E>0UDI|(\$OT M=4T^BI^V^ZHXJ0-)5TPPOT7-
I^+>C5>IPIX3M^U*I+T#;AEAF:Q^?7>_ LN M0)7%I>6>+!>AX%I9X3Q:5Z|EHMH&6IULI3@OH'H5/G?YI-1MFLA(7 1=IICUN@_2K>_>E-#
<V<2>U>X3(B> M1NW17XZ>(B*18H=3M?2UC=O:OM\$OQL: (05A!)/X5D1ILE<4\$F\$S1@:V:X ML_XI(V:IOX(5/7P/6&RVARTEN^P=^QBPV=P* ?
_H|HE M.^"J^C'D9^X*P:#540.=I59|(W%BFH!(ZR^25 %+=G0CC"IS/TD\$4\$Z=GN M')=F|H
YZ3#YBY N>ZRV"ZG.017=L.F)@01B)RLBO.*M|=R\$5V36M8.+0@M^&AV-KI(C.=V>RU_Q:"I"1:IE6K/UP\$N%\$%7)2O0P9DM8RK%RBDR)N9I(^
MD02K_FY_TJIO(F=M1=B|K(M'N8CU+X<:#_QLODQ83-B^M\$%P%PCLUJMCWT=(% M>=<4?>J#8.*J@>^);I:3BFZ\$>L>TAHH+>=>XQ.
(ZX8VF\$Z(E)TVFV%W-J^I8< M_1M|T&R^@^D.8@+J=I1,2\$-DEI4VJF+ 2I|I.R.F.8 9?OI&_.3V2LJ&N8Q.
M|8FK3^U:SIS\$NO#^Y+G:CQ&I|I1PKGPPW)A5S25128M%2.KIZ IU:PI)*@ ME0A38I|I\$GTWPT|B\$83JA*
0I\$;HOL+YI:1R)=D%OC4_RG9S(33OLQ^Q ME-ZW:VC @>IAPMD4B|GB8E+).1T-B\$?B.(K^>S^ZREGO?I<=0UZ8R08>G M)28(2*2I8^KHL2Y?
Z1:DRW^I|G4Q:T|TW|5P%#W#&#>=IQ% M="W.DBD^GZ3^@GOWI^AC M'790H=XP&" Z\$= D7*G)\$QM^M&86-RWA2\$5>EHH@U/,\$"#QRA?
Us^_ M8DU":&O-8E/LT90-X1+XH" P7021^WOC^Q2.*#QZ-I@ST>4VQ6P.R&(\$# MQJ\$F|B3= &=PCP:DJC./IX*|IGT.3I>YMD(\$.=Q%QJ!
M)ZHZ5JOA@>D>H6>GX+3H);#TC:DS\$1^VOU LYX%M/OX|5_P MY3?2.13*%NX:YQVO7 "VD-O@/)V)VMC3Y%+OIHD=T?SRF(@?GI'6I4H.5;
M4NKN.N0?I4.FL-:)*P+PM?P'4T8PT:IE[+3(6Z4%CYC=4C8I'P =BY31T8N MA:I'1IP_ =VJ18+SM"TI(FFLG#VPE|UP3BCU)IUSOH")H0I

ICZ34VZW2WY-Z M%FV("N+*2X1@40J1@NV051LDPDKL%*Z'6F"Z@|^*8B*AM&3J63@N,W5* 3&-5(MRU,5X&X5K0=D@&PK7:S~2"OKG5VTD.GG37 !IZQ, ^&S6s%"26KV1IK"~!E<6IH!|32+1#|^;MD/Z!%*@P#;U^ M MN+O*8FIP*Y*YXHU4%/^" \$GXO\$80!0("0NYA(D1@|@=@0\$W&H0XSD9A;V"8'9 M#;&-< Y^313N45G>V^N*#X.'0V3', ^<8E.BFQITJOBE%C(G<C(ZW>|E7GGW@0A MRQ)NW: N014>83D7(8-VI17%[5LXK]#!75629""A!^49S=BXCT?!#F*.*4]SF M3J>C4C'5E;0.Q16C-KET;AZ&|NH|'(8;@&BB'EN!';UDG3'DW%|^|^|UBGO+& ML4.T3PSH4PA?<\$+EJ'2#10Q%OKZ%EZA3"< _20HJTV\$G"TC(6(LC MAREE8.HYH^B;5Z'9T#ZT5+L|L(=159J|UHN;KO D(SPS9E3-A1.JNKG/Z\$>% M&&8K"-|H'1,4-|UTK=R'IS?N2\$>,35? <*>60VNHZD'X2XG|NU>@&|V|^|^" MKSX2KN%|Y'YOH(61?22"'.80'N@6E.(LG30W=|TRJZ&(KZN3^VDGEO|U|LOU M.9+G2K M2|YVH,2P\$8|RN=2G|UH&COY7UOND0*N&NB|@CT6F<7;:LS M&C%<DYA7'0"@|A AIF3*=K-7IIF20F\$LT0;|!KPSAK=V101\$/6\$U\$ZK@ M|ORR,GL|GPCD%80&<4.P|H&L5 6TE58;X8F49;8-G80W:2604:641H|@77I24^ MTONJG2YM>L1AHH'9EV1) UL=#=(=>+O!@TQHV" MTP- 75>|R3KB ">@5.IX:464 W*>E| S(%\$Y=TDKOYP4+=CZ<0(I&C.F|N/\$ M.Q8=:.(I|J74.-> 3.IEZ%NQ%#\$/9V+^4I<99G;QE:V=PT>|+)O| M|@DXF:DD| <9T'G45I>8\$S\$Z&X|9R^G1Y>+0 OLW0I4KSKX,36^4V6%JCWL|J M|I(CZML;D0Z=N>|OZJ7'-T;@/L8O|FBVWK6&GFR5H MKOG:4.;O\$S.CX@URXN\$=OJ)+8W EN9T<7>=>*K#+|I9RG&,%J3XC0<7'-T;WUG"~HR-9^L1|JW|R/E#W2M;8.KL8C3I670=K3I3C MEWGCMG1HYFOH\$IV1#=\$X3G'=-\$XDH;@IQ3'H K'G05=-VL4&#B2M6JY@K*D> M;!"HJG|G=15T/M|QY>| 4I9<+::1|_D1| =ZSF8&0.^UD& |Z8Y?|M=BYZLU;KJ9Y>|P%|PN5?9F0?;P M\$SM%9ZL/;B)| QI;=6WVIC="BOJ.J M#W+^1YDU8Y-6VKZ.ZKF8?JV8'@+MYV+ZG&+ZX7.Q;Z+Z;>+R- L|BMS|H<| M2.Z% "BKTFID?7=85WN:"*GH;2IUO7T'IEAOM;MA323 *7 ?IEG=<6C:4 MR&F+4.J.N8##+S-H3*E4BN|;?U;? DUE2G7DNDDBE+I.W5J7%.2 M.'4|(9PJ;ZIG8T=2%EY<36|C"*G"K"P*(^H MR#;13DH-A.*T@O^O^L- 2|ROQ\$S+M=O0I6(|VAZZ7QY'6%ZIWY?1| 5\$*K" MZX"(%C|E|J.P2@%09B|J|R2M4Z,22E1|1J|^~WXLA+G|I4R](\$\$3)<^4#+=|D M;.\$|J%Z?>1X|C87L'H'XQ@D.OZNN(%DV:SYH<(|:7AZ V?J?*"WU.A|@P370|L0"EX.PCU.N?> 9< ~SO\$~L3E|XNCFV8|(\$?+*E& PER% M&V\$? DAM|S|L|HF<9ZPN@C+6)9L>%^< TE0D!N|=;R|&@S.;|+T+0!*\$ MR8*+8XT7)8>C|FYC6A6 \$:M|W.9M*W,K?S*W)4Z)7"MJ\$|2I MR/8T 4E T1AZX=G.|3Z|>?Q'OYC+%"%>B|J|IY5\$|=|R&E.HMNU"~&J'V MD2G(VD'CY>QZ'F9+P|P|A)|.|I@=@="5+| (=KI+=6R7T182.)II#1J. <?Z|HTX6~"##H5+W|9(P* MP84;DTA?|(3X.E(LOSW|4C4PDOI;>T76"V|GO5AE'4 U40VIOC+/ETC<?I?V M\$0EL2^UMZ&SGV%\$;S\$U^&4.PIU|J^'8R6! (IUHO4R4N8"C<:::R#;5UO">%. M^R616|X9I?USMF307FONR\$SM**F'LU.5K3RE7LWXT@G^AL(F'3)60C.MP%K M6"A\$C(W8N:OXI|W"?.\$O M1NFQ+R+=^H.R6P1DITGEF^Q'OYK*^|I?Y;|'MAG@MOI2S|Y|IHH.MHP=BY|O MM&8J.B0\$%H- 3+N0<8%5N((^R7;MER)5=BWBZ(\$ZC)P/B<3'\$.O'A^=";|8 ML\$> ;L:9JF|@@41TZ9Q*5!-D.R3ZE@X*.CT=0|&HRMD#.%D.M'8-I**D^ M.AONBDY"("="B" #Y\$BU\$V^A9UO|J|SYLDJP |I7V'H"BU"Q%|T<@+|I|HD@2 M#3(X#&2X#+W%NB"UMC;^A*D2ZE%6DNM+^?>2I6^RY.=.-9%Y1*- DA@EVH^~ M/BG HY"-O6*M"~I4K#1A1(IH4^CRI:)"OUK#|KG3&4Q2<^/EK2):2^QV0I:| M.X'U^0G2M; P.AXR+VY68WQ\$B>|.98VUYU*.3!|_3AP_- Z->@RP?IC24+ MZG/HN25YWG0;.IL!|AE.O2@!71?H7.9FMP &SBHLN7H:NEO0@?921KCN@M MHG-XJ&C*@(C|!|56698-D)=|EYKY.I?>>ZN W'~+2K |F|O\$0SDYV2| M.VHAZ-> M.V^|J|N|J9@M-M.MOTQ|WEP#|UB^K'62V4^V'R*F&SY4POZV\$Z52LA@G@D|T6K19.WRFE: M6 OB#&T>|/K\$?ID(C:MAI.569>A#Z.'.4|=(A\$#)D^YZIJ|^R7I4|."U:O(M#|JQA I6D<|J|I2M=M|I.H-K%KYVY^|X6;F>9LI1OC(=X8MJK%=|84;A5WI=TS MFB'FEWBNI%6V;A*<=LLD-=O Q^V?2<1" YL#>E|J \$A>|30|JMR.9K#X MX24;<8V^3?QF#;%"%9=CP'TO(XJKG=Q)NZK4VTA"? E|H98,28>DM19>*< M1DA+YYA8NRM.PJ%SE&FJ(N^+>NK.BV= >4|BOYY|D=71*^P^"; 3 1I< M0|AM^!|)G9IUC-U'QNP|J67|)2K.E!S.G6@*KZ LL3 BZE;G-BU;* M1^BPM,7S|>|<_L@3NTDT4S|72.#9::S8N8-YN+4P4Y\$@ '_:9SOG067N.U M\$4FIP*1\$,'>|XY97DF"(GUV|T6<#"#|S'E45.28 MQC(#0BDP)~#K|&|IPYBK_-2\$G.TTS?>=>|>48W M4*B^V8T3U'%.0AB4-6X*75L>=>M_PLWG,5MA*T8B@Y1 22|M|N|^='*M|T|J7I-CS1L M#|8|Z5G148@HY^XZU03'M81.0.&ML7L;+4R4E1 6L4A M'.'.~EJ-GX'X_Z0Z6'Y1<8^KQMD+8.CG0.@K:3A9 D5.|I|B|OJ'YFK+5+>V6D M.I(K|BJL\$-?FP5@STW36S5Z\$DL;W?;I.O.TI:X?| 7:6=FM40- MW@X\$V|J MV#EBQHRL"IT4(11&?PID 9VS |W?VA%|5GD:'SU4"|JP>RANQ MO.M&"+^I\$F5%P'0| 4#>@:QJAE|Q|ORXU|JC3H=HPD\$NT^1@X9ZP-D519>KV M496GB|613VH(GY0^H(4EKNB? ZO7TUR_XUW4(04>9TIK&Y+N4.ZLP.K9= M;E79OK3IK)?OVL@Y!AO+^+=9^NQR+O^D/82@+;PAV/^*#3^B9UIRLXZU MJW\$K*4? 8XX+B.BR6I7#|/|(\$*)^1.W4;3+D1DW<9U20\$KS|^K\$H7|@934^2 M7.R.R|M;?O+|^|D>|GODQ8059<42N7\$XMAG7H=N.4M:UQN|Q2TL|7:BA< MHCDOQWBI7<\$=246B(CZ#|2M\$^1|+8FKS3.4UZ<8|JWB>?>HAG\$G|>?IOVR?|@1% M(U^2PW\$('I:E0--ARO22+S.R^2U&7);ORARBW6GMD- !+HZR5(7ALFHW=3^5 MK2_ |\$*#&:=;ZL72-(RA|H|>#>DWS;4! =W0^U^N89G3\$3\$#FI:D)M9%MY.|Y/ZM9N TC^>ILK D& GV"(R|C^6.'A9 D|)N>|.I4P|>^NK@LTFFX2M_|.|YI8G;^/CYRX|I|I.Q+X^|Y;P#=#5;HMKKUK|C=APM;ZHZ7U7*M)|Q MV66<#0\$;7HWR^D|= GSAE\$V(PBEVP.KTV|@SP88SA\$OOQJ9>P|^7ZH9\$^FG M@HTB^!\$BD(L1:!)&*(|U5&EBI825RBME+^|V3U"O.MRK-RRO(L0|I|D4'? +U.5\$8*|4#Z=Q7O\$OEG2AXIZ3^+5N9I+DR305YKIDSS#G|3|O\$OC&QN.;4 M9XD^KU%.I5TKJ9>+>Y|IWI%+RIBUU8. (Z=83\$S|ZXU&RLK2G5B(ALX&IZ MV7Q6I3|JUZQY.'X*KKWZ?8I3|UN|A-KO(J&1+2D\$N=;9IU5&ZN>::>1#?>^| MR8FO9M*XOI;QI5L>@_XWFW5I?|)1N1'L.TIFD M>T'W0#QF#TCK?) _=I9;=L|IM% ^DL%I>CCIR)TRNP|V7?S*9)R '5S@I:|_M0SH_QTM0;.*? |O*+^Y/FX G;BIBYQ<3 MNE Y4A-<T7?26>|J\$ G|WL\$X1>|7Y6WDAQ4HL8\$AKS.'TXO-Q'4 M20K.|&S)F^~W|UUGF6^P*8J.O=Z? >QTY(X.T6+XT.VB_3ED(XL.Y>|L NTCG@KK MFY\$ _ZEQQY>|8|)OU^H-TMXZ?J6X|A@A=IO.IO:|6Y'|3Z5|MI|Q%|B+E M^M@W6M|G+&C& |GMMUYXS |G|1|SVFM?IY*ILHO1WO^4Z%0ZPZR+E**.|I M^L7R-4%--FO^Z|IOJO%B4*.*F0+IWO /#R->OX|(^7^1^IO ^FV5?6:LSZ7 MX,5/V9M| |T<03E |B.9N?|VU 2I>|H_O|_2'.'|S04CN3G+^|.A'=@@#SCW43*N M|(W|J|S|^@695BHO(=|W.HU(3|OY5P<.;6MEZ?+^W)93.81> |XERT@CQ. MF=O&L6|DKF;?|.F42L|)YOC\$|S= FKUMP+M.2YX_D2#Q|3UZ2RZUB*O; M.R6CPSLEO68|NY5.D5M296I%GL?60MFOD2D^N+? 1:O!|KFS:=|X|KD|2_ C_ M_6\$?/1G/H=?L'J324V1#^15B=|N.O'RD*>RLK?1+ _0V M#F7R-H?N>8;+03GZ7\$&V=|O7;SV\$YO.Z? |OY+@&|OQ<C:S#FV\$S|AMF|Q= MRY5\$V\$17ZE9O>?91= JY%2@G0;.*|NYP8Y|J|A@V|D3\$9V<;3|JZ%JM;K8F MXL@V<@OM>)PPM86EGU9K*D^VNV156 TS7O3E(*|C|KG|@|IE\$;%Z08Y<C&SAH M/9<3\$;C*T7 U|O>F_|.1%6*)=141N*H.&K^|O>R%7JL&YM%#S% |HM5|4RV# M1"HKVI+6P\$Z-RO59?<K#<^~|M-H6;.7XL|1^XJ3E(8UL2M5_FY.M:9<33=1#TR12G7">6G3G|O0UM%EC:=S&0BC<264"@2 MCL>|J0|N5\$54;T^9OD.N|ETK&BC2MA"~|I0 M'@@^|=U R5;1CHX(2J_) M_O|'H%>0>LLH@75|XPI:H^TP+= G0.MME0|/N&Q|<2E/C("'GBP#72D: MRT&:S>?>#VC0?7="M^BUBD?Y(=S9I6Q?Y^@=447_K3%""YX)\$:9Q\$A(4|IM.^ M'<^>YI?>^RN _|I:|N""E(9NPEZTKP_|Z?P+U<+>H7G|H|G- P4\$E\$| MFKS2FXP=C@T\$1@1XVU^9ABS%<_00HY3 -M2@QZG.S(4M+^E3T1|DAJ0I M6.)|2QP7^21LH.I>=AB2L5IWZ_QCM)KCA|YI|H75I+1O? #CM\$T_OLA.VIP M|G8U^HMSYJ|LKUVDO\$1"M|F_H2F"NAGD\$A1NY4-E9LOETC'/(%-0.GBUP M&Z5.ZP"/&B*612"; 1CH0"7D-4-L&\$S\$OESK5?F.II- M.2A.=SUKMR|H6G.I|V&@ CF%00G1-YN# 8\$E_'F.'2A)U02F#>|I:PS>ZTH-8|_XRA%. P&H=?YG+I3 MS|O:|2OTI|AT R\$A4OU? RHG|&Y|S\$QMH2G.S@KF-W*.2JRI|^T-TNV H MV\$G0I*(SS\$C@R|H-VL7W*Y^G PS@1<|(S1/P2| M^LF00QZ&A49|XZZ';Y|_9@KT+WN(A3\$W) |J2\$^D(AK|O|I|J@#FVJ@& M<|W>#^<^<DG>T?D"U88":4X\$8Y.X&"H@J#"4X>&S(I7;F1&+ L(?4(%7, T> M_+C(46IOSUS#;YI4W/- UR2"VQWBS/B#Y37^C/V3.6NT&C_2=CW\$|J|KD7W|> M^X^F|XOW/OH=? 5V#?;FX+W|XD.7#RX|M-GHN3Y1)8B=XPK.#1UO^9DE|K-MUDBBRZ/64^0QD#0ZV|IZ.WCOE4J5D_QFRI#XOBBL|EF;4(WOCLN-.02AT M\$<@|S\$BW.\$2:9P>D_DJ(2HQN|8\$V%B.OCDT9|P@I7CT|Q3,2I93DU#W!A; M@_ _KJV&T|)O^T2|@3^65'ET:D|C|5QJPX@K\$E1|"CX\$? 5PQ#XFU\$|N_RU^M^YB7GE=&H_X2D&IKFLUT|/0|(135L50DUK\$(H6S2=?&CRP37.(74&M\$C\$ M1.B7U020N(N^|8C- GOY.|1P&EUID.'0^&4_-72^<2^FM(GC(8C1K9&M'X5)W4T=|O1+W^2UDK@2R<0FQ+&""&A;I16|= 1MI2A+&B&^<7>< M*K|=|X/A.ISSDOI(B#|C|Q.^E*8|FM0Z12G;"2/T3XP0G0;BB<^<("EE M'&"R"?8.XCONR2VT^G6@4% 3|GD&+L|2_<^|D0F|ZC00<2Y;B3SK-TI+ M.F"O|ULVUG|5@&U>_P|^@OC|)OR=W0IG77U@*R48A5V5|I2H>D#K(%2S;*) M-"8?Z#_Z4WIF+(<=<2|7#09_)>NY=O**SXB|^Q^C&LE&3;2*P|J+R- 2%?2|J| MKG -/UD<9B|>>.*2BWZ>A4'O<3ZW*.PT*O'P'+3&00?VPHLES3.(DR') M^2HP;E_1@:N#2;CFU+BVN,H3|M1SP.DTP|EZQY(&? B>=7A8|<L)APQ MGAB<010YV%QS%;.*OYD>#92?HT^X#%L0L^|X; XO>H8S5>U2.O0H_T.6 MR _" |&@&JZK|F2;TW@22 7:EMNCL#|J5J)^^(/C<_ 6IV@.4X22ZK? M_>GLXC>1B!%=1FEG^2A-T8|(&|TCM%)A2XICU8|53L@.K@=4|&G:S>9SC M@Z.4 5|59LX.2,7|X8T|T.H|H"MRH"| RP=Z?Y|H?FVLUSE^&?POXP? M_~|S634N9|5X;U8I?MI6NP*;*X@&G11F'S^7%A;Z36Q|< (I^6_I^E^I72.TIOAO#^AQ53\$ZMI\$|&C&B-RW8122RQDDC M&I2%Y^4^C6|JZEH\$<PK;K0B6C3R;IABW2>!.G19|G46W;."(6#2|W3 M\$*HON_LXEUV.YW<\$ZIH64^6|J|K@K|26%?|I@9=%C===LNR=5@M@XIF47I.4! M%|L";Z3Q|L.M.N|Z@N|N#7V(WE)=^3SID?|SIUR&F MS'T|V=QNMI&X|95|A93Q|J;IN^X0?F-B;|>F"BYZ MA4)4C6P=D|6EI=P<="|H6RR@ MSC.64|X64.L9"VBSD&^\$ 3E.2YOPE2;8(G>XOK6Z98.IYOU25SKYE23BA 2|B8T\$Z>A)|(IX: "I|<0Z+"SRL9I9OG&U M(#YG'DP=CR W'- 3I.B|/#=:Z VEN9W&1F'1(GX1 M^YK?IP+)|DR|S|T&85:A%9YVEW_AB>G;."80U^Q7NKGU+@DIU:49*7"OMO&YIWU.@YR<|J>D>D)KJA MCKUNVP_ \$J-PZQ<WJN MUZG(MAS@00EZ\$4#"|N.G=9=-%KMG PERE&V?K;:1%96;S_ "4>D=|HCC@<2D MK)?>V>P1|J;G;QKE+^UP%|/BC-B6IHMZS3>G_R#9E(W>3T# |P5|J| M^Y^@_ ^1\$F E7N0|KQOC:C#V%?D|O1M_9Y@Y=C/6<#*9#.WZH>=&+@/B|M|F|80F74WZ+*1.%%9KT^7KT7K|L.UFK@!_W|J6; |#_Z3?;V\$.39X&*E|9| MNXY^NGYH"OR-K|SM1Z^EML8PU^WNC2HD-"WWX^|NS)H|^+T.E(%O#X>/? M9?9FASWH#P|9=M#99NM!*T8- 8V.CY|) 2|SLZ>#N#70GEKD36GLYEW@ 8T1 M^? Y&|)B|)09|2^|RW\$>^IV>KD6(|J8|3B:Y|50\$S(CUN(XOS^VSVGEP0 M54MORK(-3V&3 |I"Z70;6UT=|?>?#|N3^Z9|25^KIG\$YE6(KT'A;S;E|X|J M:HE*|_06V|I?F).|JVI 2L7.OU&7O^D6.K;ZD1%- KYT+|S|>|ZF+&S7| MJG;"7|9^6|N'5=QF4504+6YXSBI\$X<_3N3IE#KP1#A^0^MG%6H?>=O3OXI M^?S<^SU^|O>N;A|KIT^GK&YGI@>N;A|K|UM|/@W#@|+ M^/~-TBF*E^4AQA MLV8 M5 UO^<=B^NODN-0^%)>D"95(-QEP&LQ30EB#S^BPL+Y2Q:8 CKJ9_XN14 M#3R|C9M^ MDK5\$7|&IN|%.6_~*TF)4I? 2^_TT^V#O+D0QZWM^M|3|RU3Y8 M-KB.OXY34CVTUWDM\$<9(24@|^P'DTU|O^V;R&XK?S1XZMME.)G>_L|M^?TS:NT|55|)%V8XU^+A12? WUPYVZ|56-L|MYT.S1#?2.ZSD.8AQU\$%8 M=JFSK\$36YV^C0|N/R/N? *6X|I|H_Q5Z|FF08^JLB|N06R^Y8BLB|B MYM/@G69|MN0=- CA62%EN.TEL\$|>G%|IT_ \$PM&M M:HK\$5.TFC55536VVOFQJGHIV-BLCS*=G6|>\$?TS)Q|22(Q-^|H5-X#?CCC M4! DG+&B=&#P|0DAI^Z^*K&HG|E|@A)WJY1^AL1C#>+&:S;V7OAQ#&+ 8+|&|UX|N/H6D1CYB_XC M-P|MYOX|AW~."DI_ <909P@&W;W#%;JL\$#A_\$.S;UCJ3V0BNLW>|)F^N*@@|67S|W924S=-6 M%SZIFN(2A SOS_M%PW=5.5^H?G\$G\$?SE MW2./I<=\$6R+NO;|IT^9ITX6#0XW2P;:N%"S=%RH>6|Y^C^U@D>E8O_QVW M%|WWP>UV@^F^Q|W6TVJL6IEHQ:DRV9RM 9/D2 TD?|@V8&49@)W1=^ WV MB+EWCK=JF?IAAQ#B19EQ@L>_>_T.D\$S-Z|J|^LEOX|R+|ITIDG|@+^P|Q M-="72ZK4|JDN|JM04GLW|X77K|R^BG=T.M2.9I"OP|GA.(+B^X|L;TO^_|MYT|I_&+&GN5=&IGZ9|BMQMO|+F60Q=ST/_L|R|V_&R:WIP@F6+=Y J+%C M:C0-@.F&COP"24|>+GW|RHUW0\$5|IXZG;FM@O:Z>8UK RWO+2|I7;#?HLJ M.CKKK5KJ|D'.W|I9O:<2&7JY(3M|O|3.S%|4V|OV|&|U>>BKI M(^EZ_P#G#9^|D)4^Q|3D2^=8DZQXU7^QLF7N.U^5GMLO&QIG^2C^|J|IR^G5|VB(0K4T5L&D<5?2%|D|DX9**>@)|/P&_#W^#6P|F4.Q:X5 MG CX|^|WC|H|XY?^F^JEC&9)ZSMU;Z>XRI.AZ|C<=6&6N_60^CN X|S^94.VM G>@_|I28U.IF MUZ? DN_|U^Y|B_8G5Z>Y:RAZGY_P*|4:L.\$D@/_SF0^AWDUKWSE5HTC&|I-@Q.O|Z^B1GEV.M1A7#Z6>=&9;V|S#\$/3+Z@|+JN>?659I8LN#|:S3A C7:A7I%NZEO^|A<.(? MHB:LX|WO@G^KRET#;Q2M00-O|EP5E"IRH6_?|AZ(742|>8-7IO.2|1NOJ;2 M^~^|A+>|>5-17 VTH9KN|I%"V=Z1LJ5^8B5I|4\$,"6WC^FC?7I8Q4<#BXO;I MG+|JOOIK9(\$3MSM+TPEP+D2)1&N|5%W&B|JRZ&R">@+Q1WZFSO"/\$4 MG75SZ4;X:P|G|&|K4PICD-W.MO.22,B 75A^KY7FB4A|?9QG|;|8D4 X71J3BNX.Q@&|AL45(W7NJ0+|^<8@&-

```

#15:9#I=$^6MG+NT1S%51|@D#AFD'ZG'.9(D' M/Y*EH)5D%8OZXT$V1D@2$M"^^1UA2%[@.|!M)NOOB3?N3? M.)D4|W6JY<-
|SW1|J|+GWEQ|L|W.MX-/TXQU*~:LOZ>+IPJM+5S BR-G>9K M:1%7*BEL| 82:3|(&W2GTA|>-O187|53@>#X0R2RZLS9S&5&7LTO|?T>A| M>=$V$1@.^
L45.O K#U08-SXT-|B_ V6HUG5V.9-:LW_ R68W/T0. #6R^*K* M+12?2J5SD9YPR&+>H*+<(.Z|06-XTLBVL12|65118|T5H&2$KQOI7*G> MDHI0-
Y.WSGWL:|HF$9G?R|2NJN8>>":0|W<-<R@W3M|~9(RVTG|/UUG2 M+>1 WHEBP@D*F=HOTX|)?@51@ZN7. #SPK|3>PJH6?
Q9.25|*+>XF*J$| ^/X1B M.:%@UV134(AN36 6D.|2|/LPE&WVX#91$|DUL?TYT8|LQF*8^ ^/L3X=7C= M9JG.YP3|G:W|@:1D.?
XW*CATZ|Z>|T/Z2)H#0@% B#G -;V9D*84?TQID( M=5B47R 8|G|S$S:|L=L=NHW96FVN#
M"5.P:N2| ^/%%. #MBE,|T|^M6.30BM>|JCP|W|DSZGQ Q(SHDH/3 T|G|S|B M.5E3 6--|FP2?PG|/0Y4 42S>#T|Y84|M|J.VT2XG-L'L-
:HUUH11A5YZ:CZ'. Ps9|CC(X~*TK$GMP5Z47YD2|T*:N2P M+RKSU9ZT5*:C|KNSZQP-KW0|PZ|LCNPS|/PVDY8= F|Z?2HV4VMXHQT0D3&YNZ
M8OHV-INJ9O>(.C.|U3*5&W47BP1L48T$N=@|D1B|J/UMGDYZ 3MT|+>E MQOI- -0W9ZXCMT2+ I S<.=ZWC37|QK$-|7|3+ &#&|
(O9|FY3Y@O>:Y?Z MBQ|2.EBM6?237WV?|POX2X> ^GF<.@<C<=VY MOGVY5?FU|4|TGP9VF-WLK|>9B2.10#*T J?|H8 (PH1FQ-NYM-I*HVM I!
(X.B#4|>$54U|2|SUDOTE2GCL|LM(SEOEQ?+VXD#>:JY4U:6~IUN9VA:|QH.MX@41*. K6:HCE&)>
|I-37?31MOYE.T:NXE1M6|IPGPYBPES$&T ^:PG5| (MXA| ^53NUB>?>9Q Y& BOJUD"P.!:>3&|1KXGA>0LM|W=O&.<)>DX8VRXY(J'2BQ$UQ|+ )
BT1$4ECLT.WT|7$7ICTYVUIV6>0L#(S$W8^W. M>6Z>9N=VYH$H4 G_0^X&E:T8W=GIU<^L5%$>W4X.VX. WTR|D4U).$I M $<^ J9D.Q$?S4 J-?
D_EK|G:D7?|HNWWF|2-KWB_NN#Q$?VWU MUEHMND5@LG/W^_FM.YTZ|7^W_9/8G/6WB1="YBP*5|^@XXRTW6M:LMLL5
M"64*~K.0+>~*MW02@#RZUZU|HT23|C:T5Z5>^G^K5Q6QXM.5KEUI| XH7 MP@4.R|>85A&OH_1A5.N#&9SSX?|>G:F=A9G@K%"
YM08E W>Z>|NXY?>JD ML^Y437|LRL%.|V0:~8_|GZ3:QM0+D3.G|0Z|J_-G>P">F-UVV< MA@H:15:02>LS|07?H#K8>?WF|J_ 5X^|(J(5S0:F-
MMZ)ET=A>6-? MG/6|K|W6F>Y3..G8?H #^"L9&-| ^B9T|^|^"Z2+E|S-?N*+5*1%|RLR+8%/("=R^"(Y?^W^|R? M.S.X%ZLEC|V%KWI18$IX
Q(A|+|) _#A2T?2:F|8X^| ^/5W@O'/U3Y|7|HBR M|/CT?>18X0|>+>8+R|7|5FG23U9ANW|D-APLL.5|"+H_ H&7?0EZXXF?@
MW+FA|@|T60D@&|O|H|W|J|S|3NB|A|ZH.P+B-2:~|*P|<:6G*TT|^|^"K&R M4G*3(UHV|J|D^V1..L&O|_ P60>L&|Y^1Y|0:="4 89YQ9WA>=3(>|BM
MC1$2A$O5&P>PZUX|M+)|VF| M6J<|DDA7%|J 7Z'NS.)AS> ^N.G(P.8|A.%U.4' )> YA8?|KD':.95X6H0 M|8KU.O5<:>X%JYK47FD<8K0
Q>>B'D.5$3KN?>P.B5Z2S @Y4SF*HQ|<^"VP MNHAP-|^|^Y.H|H|G|P G|K|^7.F|E|K-T|7SX$M ZM">@/C%3 ZM|J|ZT|0E|A|B|&| MJ-
^>Z2$QAJ+E *7(H*KP|=5%T*XS0|6&H|+2VZ&R)02|+W^". $2=: M5:1%GO%-2|SZB|3PEZEVS+8Y|C|T|T0B|A|B|D|33"P*P|*|8|8E6U=Z#M
M-?|J|FV/25'LK*M8-AD: FD> 3T:TV/CL:@%G|PSA|$+>H#%V@2BZV@-6|JR Q2&QM|LH3:24U2E X#+#Q->|QE&:L$ "QDI|^<- M:1PS.MY#
<+15VW#ON6|TXK|VX|IPV?>|TCAH+>H9| ^#J PT|>9U|2|IH9 MM.EA#E'=B*$BN@95XH*Y|W-F6B@+|JCH*|1/70RR*$6LWS.U: ^$P&|<*
(Q|XV"O#HEA5/R5:~&G8&7 M_|J|T?SPX|K?>T82%|(1C.O. "W )J|DOKZ^>|^?8S&GX%SMA<.#=LV0N?& MC>#>HHWF&C,BTQ->GR|WPWG%#E#
MWELAB?2*8@:76|U1N$|ELVE.DA6K< M'6M792|?&=>|@7:F)'$Y|I&T8EQ|":P7K|@5XDU|+6D-P|O|1%>+>^&4 MUM22KTC1V-R:QADL.T.|0V:)|@
WX$<69ZWL:VOXO+|IU'(K1>=16(EW|@9Q|/M| 7+>4KNO.R1WYAU-UY C|E|B*|T^W^#R8G4|S) W M^/R|*3K$4|=SS:B|L3U!|.28|G% _|RETA0$OG%
(1#>H>Z>>3#V8B^AAD7 M18C|6+>@%:8D9>=MUM%'C|N|WPP0 M6|53P66 =R/O#!1M91?^/!-&3Q+ MT?9TP|W28U?
Q|O|H#G@U.P.Z808T9M0Y.%N $5| [#P^ MY|G*K|Y$WUA&49%.RLS|6GH2>*4+0=|SYK?AO>|PX3GD+4|ZC&|836HVPJ
MBL<%5B.#WCO@C3TXH|AWG|)IV^<|GX|&=Q>|K|Z:4.|M.$ T-X*~E%3WM=O|15XQC_!HY*ZR<="5<#<#2@J6W.Y0+>
M_|G&YA5^>CH&9HU#>MO>G?GIS>+>B0Q?P>U36 |CO M5YTE%$X5USC Z>#M@P37H5L#^K.'K:~+ |J5|2_|J|VO:@W X:M?S:TGA=0S ML^>
M|HDZS:8$47Q^?H9:1AO.-BP.Q+W 96D4MT26YE7?@?X=OF=SPYB|M)7KM7F M|3K&2C ZDXH.I5X2&Z.5F*|IB30?2|1^H|OM|I|K ?
>ADW8>MX|J.NE&|7|WY M2*VZNHT<0^>#>B% A^FY/ MW2_|LMZ<2PW^6-I^O)R3,|*DVV><|I-(U0O(NG+9H2(^_N.UN_|10:|^/"^?AW
MEM:9|C|>|JBE3|A>EPI9?T|F9V 9GXTL#2#%9A|P>QY| FZ_4|T|D|D7.2M>24(G+IG_T|UHZA XA|O|Y0(^&SN> MZ|QO|IBQ$.?NB|A.GC|^/
MW@O.L8K20$?|A|Y(U^4|K|6&2&ONOH=2D|X XM>>|>K|I|B-8F*|3UVR|J8|HU6%|. %^4@|/>#>40> "X7|OQ|J|B8-|J|=Z14 M|.#!A<0.
|F3|)%R|J R^4^V*NK%^R43?8-@)A:WUZWC8QBB|D5|'G'"(= ( M'&@ (2 0K03+=B8NU^ ^M212RX4Q|XF-)N_60|/3%|4JY^+Z|OPLK7|*5/5
M9_|^#&.@/E|L|^@G.%0>|*~:~0|1.C'D~. _3NM$WX-S2 M%Y4W>+SHM76@M(RE=03R=(8Q?2U0)<C^&9S.1|"SFF&OZ*~2^4M| 4A4JN23+
M+94R4J52.QT+>4Y* M'2H^%X|J-|)%04|X.44=5|I DTM>T:5C|&W M43CK0AY6%.W$)>80V *|^MAYB|BM9BDXK+8G (4QN*~*=?=|D%U"XA3_#4
M.L6AA?|2$|F6P4>3|U:SHL8>~%H GS:<(RSV.J5Z?) %0|OK2$|7|H<%933> M.UE82@QQ?#656:@ 1-|D1P|UM*83#<? -
(WX"CP9?YQO@5+>#9CH.V:#P M#@#(QV|J.LR|^< ^06U|K|J|V|OLR|^|I=K|P$)|JH|^| ^W|P|S>|08> *E|Q|T| M(R|?78/04&-S64:P06"YF*ECN|HV$
4:B@>@RT.2?|O:<$<D.R=2^I7EPM M43?8P |L.9A359+4$|IKL@7FC-C%Z?"Y9*~?D0|*ET*H?R'PWU@/X|C(%: M.$%A2<0XQ7'SA=#XOU|>7JF
5|G|L M.$P.6+&B&9Z5XCK%|B|E|U|^>T.JGOY|B|C|D|OY|C|XJY$43"D*QX|X?&F|1#R#&|N&|^%|H M|I-
XF_9&961_HQ$ )FD|K8'R'T$|6|OX|0A7|JP=>|HY|T0&5|U3|0DUX^>^H6.D9 M62M3%>TN5G&|B|&AW47-$.Y-).7|2DYRZ&ZG9'CSQ|1QU*MMR$S-
O|9>E$Z M+Z|Z1W|S)RZWR|H?>D+
```

=RO/N1/(A:LYT")L12[R+?+YW+Y<%YH3=]:&ODI MXP-Z-~[Q?92P <2F=PQC+S<L.~\$-/21-BP5C[XYI-H:VE)YI+U-.TH(P>)]Y MY0EPF/
OTT(SIN7SSIOQFD)/S@6E+YWOYFO%9E3?&+R1YI XM-P->-.M/.+88AX M3C[22^2\$IAMJ]<->9.UD/U?N . 'B:A4,C'CWCS06R/MY.QL\$Y(C:X4 U7<
M.9V2?C\$5&>N:U.Q L:A&GJK-\$C<U[-F7PIW:63:AE=2V5^+KZ>||IC|>K. M7MQ:QJNIXSTU:~^JNM?7IVENW=CF|>%68!|I5L,>7M99U>BWNM6
\$F6?YR M5=[M<IQH?2.GK*H*11A&H!-I50/TI EJCO=>^GWF='A8HRRUT J1V/G-R?KT6G M\$7)=I-|JBEOR&X&-F'RCU@0L.2.\$:~*1U/(X< *
(73D>V4^>2(2SR?>A1*A=A&RB.3\$MIM.9 MX=CFY>_ P59G< 27%1AU 3131!~ MUEROPL16@3YW/0H?IB1 M2V2?B|QOG0\$F1H.W+A
=#%6:RV(VV^>NAYTO\$A5 5R9/I?Z. Q:MT-AS:0 MY@BIRXR Y:PI:~@9%K!|S\$Y3TOS%. (IJSYU(UN/VZ1?3X&JU>->1^D>@4S1 KS&H)Z&TEO26
M5HMCO?*E@SY'(OZ1GGH7. ILT2ZL20961E/-728BYI@811M.Y?76718I4/I MRY?>|J P%CF?GV&H/M+15PV<1:=-CLG>C< 1R17K'R'EQ. 7:OIL/4/<6XS:
MN5J/V9.W6)/ZX%|^Y:|I5^I'N3-I'Y13.[9Y:3N4+>N0%KCI.~^NOQF?FSCG?:@>GY4.+IMCB6TU@OBW*~V3D0%Z'B*%4: MIOI14JW4KI=@TT>V_NA5/7??
CIY2U<7V1&=|5IK:JIEUOYTK\$&STKE='XIVG M; SA9#KMI(2YS61)2.7^E1WHM|8?1M3U?>YKI+5 MH#PEWBXIF7FAO?^PI
XGB*41@8/(F46GGDLA;HCDBN1=U>~4OBE "KW0^D.AE MIW-< 'CQ.3V0\$|+E3FFA:#2;M19*&FOA7R'|. 3G'D3I~*5DF8T+I.J84\$UQI
MOF7J+T?319U>43>F#A1211'CD\$;3^Q|. 3WB|57PI.9(SIV='F6.V-!2M?P:74|IC".X(L)HRL3+>+QXY+RXFA\$F8|5@G M\$0HXS R9V?>WPU ML3B@+
+9O)OIXB\$1('DSTL1% ^5|HJRX KVBI&6X|I/+O M YKK IK=IP&M*^T7Q1L2X924Q1>V W-G& GX|^%5\$4 ^S6H.\$%HOHCB">&|
M&@'DB1^2IV)OO%PC+6\$+>=OGX+="%20K=F8%FAGR&(0E3^'S#-HU?+CH^@QC'5DY-VSH\$*AM%/"T> MJO&%^J@:~.ET'
MN8@'='Q. S^S68UHP.6|I|6#SSQ*30N'U1^88YD-.V9C23+.#1|/O&I:AW* M^|?5Z>+I3Z:SP\$>VP^K|>@>W~^3RCDRWRG)/W+6L-%%EK<*1^!T
M'X M'F8.V60I^%U/RVN.RI^D001QF8Y3:~^6*U:LG0E#5%Q. 1|J^?7-D 8<Z>A% =S UHLN/@|> ^'UO M(F>FTN1Z~..-O:2)?
_#J|+G=.&|>5BP#'\$ODGBZ&50<-2.AY*&X@53(D%N MT? **6T*2J=@|J0A 5!^6R^~UE%OIAO2/OLJUIL4=@.WFN?/!(LJX|51>R^F M |Y%2L
YSX/IT:SFEN?|>K&H=X^X^Y 9?1#%PX \$O&:FFN/EJ.ZLA4\$&K&8R?2ITAROMQ.FIZRA IN.T MIA0DR =GC^ON(3 4CYCHA LVH^&D#QE?
F(A9+^T. UT:\$!#~.Y%#W/<1^YK#:\$2@GH>WP'M M M#EHRLC*3GM.W94FQZ23A:~^U?Z1-?T+>GOMP.21O(4)AXODH?7YT(\$T|=
MC|ZF.W(9LX)\$L(I^5==Z|?FOF.7R6!^2D%Z+YX7^0D6|_+=P0^XM!%0^40^J|H^ON.M+AHXB|\$G8&(/)"83\$[6G9HWWG|I#F.I\$^Q^E|2>YE+|X
^>:O S5N>~|V0 MDL\$>~\$L 4(YSD^YHLUACOA^OXMOP-ID!00YQ~P!<5D. ^-;V3H-I>Q (72(19^UID^5 0AQ@.VG|HM: M;.\$BW<#^UZ:|
_W5#G|^\$6E^P(D+3*)#M19 H5>A&CO^Y1ZR25(1B 01)7U #.Q/^3N1^UK-L0PD |>Z
M:P+@KMB@UPI'D/DPIAPP/P)Y^33X.W&K^<(<9Q4B!A^ZHH7(0. %M8X8!+~:~*11UR0. 'V |IY1W+1&O3 #^&AN DLB\$^+UCI&|F&G!G(#:~+07I
M\$2CJ^I=Q#8Z?1_QA TTF|Q90C3A^H'.IN/0?S#V| Z^>:.\$8\$A@1X^PIEH0W!6 MQ%=-I/XL.N) YG&>FC^@_L |8^2B-I \$|S02YFRVY/F.D44(3@_Z^H6&";-
M!|Y!LM1(C R|D4A TTF|FIMN^ MV/79^~D\$15B6Q55E@EA<4DQ?)5G!E.N+CPR MF@=H.HX.Y: "S:\$BIBLTO^9P6A1^D:H^'=2(OP
OV@3J=TEF@MEF:~*2@2L.F: MH2^O1%YH4IK%.%#D-T1K-PI+VY5VX!L\$H6^+A:TH62GM.1%NMC MPILF.Q/GJ30L|I)J2SG9HZ*
(XUL1^1A."7PE0#D2I|DI|@4\$ M%=-E|J|W M.2?<*7R6#B%.P&O\$A|I% |.J|87N=POJS4R% 3TB :K|XK|TX-BK2Z6W1ZHR1 M;D4|7>?>_L \$R-
>0 IV0Z>=|=#>R\$5^YHRG\$9">?A D8^E8/1JO/U#~^@R'G+PGJ\$7QOB1> B)V(T.HLY:YB)?2PWS8 R|\$H&OO&(D1X\$. _F5|!2=77S?>|LC/F/H/9XPH|1)3
M00.06AS@8NU3>~\$XVBN MU(LQ).8|9G77LE&(UE R<+G^N9X|LCQ5G7O|YU+VWCYZC."=YNG^RVD MC<5\$Y8S;+>%>|?Z XFSE3+|VTFM
_XGQJ0S+%)P9E1ZPW|I(-#DA3YB> UE M.L15M S1^RA55#.%XJ2GN% C.>#U|XKS. M|0/2V>>9PO=4:.\$!7JO!5N#>+9:
|0.%EX.=!>EO&T&M16!96!K=C">@P?@>:~JO M+&#|R>|QOE52(0)Y2:L1^TN#(T.:0TP)4FY=|I|PY:~^X>A0J14^KJ|IMLH= M9EAFR3L?1)+YU7."2\$!S&!
(*0T6A8WT9<-&<=6R(HA|C5GL?P|MA)=&AA M\$UHRH^5V@%0! SK1+R@|VZ=T>|C-DPI<~:~\$HP9: CPOWXH1Q48GT(+0889:~%6^KIBE3!;\$SBI?<
VB4(#141B MRD(C;N! CIU\$Y#..(YH *=O\$U|)BJ6:Y% M.\$#-^OZ/_L#~VIRJM8AG6E9LJ M8X\$YYW@|ZJ@|S|I5AB5/9XDE6^Z&M84ZG2+.RRX=: O=G9-
V0A@5\$A^?ZB1: MRQC:~<Y2C165=(WDC^GJBI\$95UE)H^L^38B>~-"Z%E1! M%<O Q1T#^E2X&F7KB!&N+U&Y
'N'5AB5:HB0T?7D0US.).0C2\$593PWN2RD)4 MXY.S J\$U|94W13DXLQ1210|G|L?^SD5V)MNX|A6E6IWC=XEYV4.=KPAB?H5^OE1^D\$J)K:
M&I%7. S(+71A4>RTI^7B#%TMI&(3)8PX|J*8^~^@244#1%4 |":+K M|GEEQ+^28WNK8%=_3H_M%_L_AQ..|F?JFB70Z7^F(IX4\$R M8|EQ*
(V2S\$:GTYB/J|8 AC7|&K7U.|P02=8Z1ZO:2VBR5|>%0)6N>X/S<Q< M4N1K^Q-ONF^C>D|TC#;|JH9D3.1#_Z+I1-4J5G0)78T7QO7-RH2|:OZ@BT
MS|VD^5QW|I|>+&U O0\$E57MS.2|2836|/AC%=X#6(N2=>5HIS)|4T#OBE MEV#E1O^U;8E^4^F9:LFE-EE;Y|MDG|B^A?)U#|\$S^PR^CMDB4-
Q PW>0:R MGE >F.OG&F! M W-.8*COFT^6B^N1YO3^5-5E2|5D2B6.V05Z8DESM|^+ M&:TN@/_BD^-.19+GIY.2@Q^R 2Y|H^P^XPD4HU1^UE:
M5N3HKKH-UTOLCU|GL|8)=YH^XNU|A|LG>M>#MML _=-CH^:Q2N+D-S9U.DGI MH:|SO IV=^C@W3|DXR^9\$|L:~|I^F=Z
_OKE^Y|UKH>62JH6Z& |FGMO^ M02!6 ADG0Q@Q(0)OHH^8">~^|C7U?F 79|9;#=#G@)^\$KW27=I2YX?BH?9C> MN80-
(_J6W^ND1N|>|>OKYG&F!E S|Y(=@%Q- M&1(KZ178Z)G<|<|_PK|@NCW&CQ:V#SO2+PMB8:Q2QVCEQ+C>|7.2:|S4N:~^UDDZGG8R.WZ:I UKUFX1UC':
=T:F.L.H~: M2^|PK.TG40H9MK#="H+?=@+8D^Q@XK:~852V A-SPU^B+YJ^0V\$^O^C PK M>%4RD1:5;R&&~"+>+BT@*PTO-
S\$^<Z^X^PLFV>SD+>@TDN0S!GGB!+E:I M|TGB|B<|I|IRZ^K\$YY^C DVED-990|< |R|C|PU90TO|><%P#^MV^*~2|>4K3
M^7A>+05Z.O^C@C=(/_D)"GZ79|<9JX%_T|A:6^&01&|ABZ^A16L:D-12^~D MO.L@>|SL^L.60AQU?2PPN^F|I\$>=2|>9
%;EPDODO.*>DMEG3/Y.OPX|8<+.P MF^R+L#<#&#L ^=W@&25:@D^"2/B8L@=2.B.Y>ED?|ZE/+X0.21LE2#O _OP M^2C2NXUC@86|/S+
_7@B#^X4CU|&3%Y|TO80X|>|Y47/BQ|Q^O.P|22|X M=I.V.O<2AOAF^S @F@I&ZN#77<<~|B2:DL.#|DG.5+|A2 5J4T7V.|HS MS7>3TG|I-
E/ZK9\$F42KF?R^X.~|>B-Y9AU19H^T|@JST>Z81KP5 M1UO-G49^+E4F6D8#^|O60|VS> R^W8B^1(LC=FP?7N?)UB>|JREN_CNE
M)33^5UJ<6-OI7D|3*)V)7!P8XK+8VE>%&|0^U1?YE%4 ADW X7X\$MG% M8D68IMVY.A.CI:7|DA?4B(C).J4-B R0%F/= M14:ETD4-/%LED7+P^4|I45-
F@&HTT=,N^6~^J712WSW2W&A\$5JTA&(2^+0 MM-SD.6~"7 XC|^\$1286^4@T^M|S^~OV44HUO@SKM
M|I?>X<4|AKR\$5T9#AVSR(G63MSDS79.&ZS:W+AYD|U4Q\$S+K 5-NTOJ MS\$**=A40B^P.IT^7+ SV.CWL6=R\$A.(PZ\$?0KZFRA^_1NFB AI
M^?YI^4U0UGI^G>Y/DF#8:|I:6-O|P3=>MC:OW@8>MSV?7LD+H#KPX|@(^G^TV L4V^SAFCD |R6#KK7^3C-\$3N*#;) M1RCX#CG4WD@C=29|I|BPFT^N^8FV|W>3^!E.&:>|5A|A:~)Q2W^A2|ZQ61^ M\$&TBN3LT|/%@B^="CUN?^I|IDM>B-GF;2^>~|I24?;|LJ>BI(|E^V.IF!
M.F|MO60%<~.~OJ2^+>FVQ7|2:N?@5^0VT<C(DCX|6G.K#TK4M-\$72H.T:WDU|99:8#96B75WJ-0
MS@^OH&D(171>W<:~)#0^|H0L^P+YJXW3/8>|F%?Z+76/9>+&|DAELDS..2: MO ^HRW.D:"BZ6Z:~^#JHS^W|U*^1RQ#7N13K
MYOQ^2WZEFT|@(<7RA^N:SSKC2L9XSEAT|7*^ 2|I4XU4R.Y'|@HMAP|5|G+>\$L5C./AC=3:(88NVDITG7S|U|
M7^&FE^GSX|TP3V+K^M^XK^K3+>WXL=:+ ^/55| FKA114YW7^M<|C|9EN M^/AXL|J|RS316^Y)G\$K|/-.*4^P~^|TKBTPT T\$G
X8TU.YT|I^Q1^1*1N1M.U>~&3 M3\$51TCU^(&M9MRV\$^6UK9M.12A=+ST MUH-\$&. 022|9V^UIG%B7^SQ71P|B:\$MF&O G^A:4<~)Z-
%V>VL) MB@FW^=X@|WSNEQ!\$@4(MOR.G|822^QY>^H1V8=70WSXIII| 7C^|1=).MH2_Q^Q(^Q|^4I#)2E>#|P_7N&=>O/H<|IX: #)\$A:1C0E^Y|J6:?
HBB0\$^|B^J^<~> M35R=3C?^~^0F.3?R+|I\$O4^VWIA278/4L^|I|54I^>@!6=7.&U:62Z.11)
MW=QWU\$>2\$&B^*+35(BA5^&B7C|7YFD@S^M^~.6@LSA\$6~K9G(U|J)OONG?F*! M<8HT=GND_WYJZR=O1=7)4+>+V-
834+>OJ=IY^3^Y4LWB6^CO5^IA%5< U0 MM8=/ X|O:YZ+5YOD:~*D7L.G|C /3GSZ<G)X%+|V=?4S&|S|<> "W M|UB/. &A#RR0?DOQ2N&RY^P
DBTU6M):~|QJ3Q^P.EX|@-Z\$ MS^9=4L008OWOFB.1|TIE(7F%4^AAA@10!^%G)N|L6:(A^Z61%=6|3+|L M.#. ^|<1FP
_1|QJQ0^1|I|=^MRQ4H\$Q&VP^D:8-N.<4VHE/B^">+8 H|TUE^P|C^+HJ+|JV^>-PK6|1QZ^4^7V0:Z=& "5#(^|T|W^A|AAGEDRG03E|TV+^\$
M3J26I+K8AYITW?78D-12!|>%.#;W*2=.\$(X+&|3F:321RIS^D8RPU8L9_&F MAN14|V9\$-T6%O^?KN#>^>=0M&D@:%9|MOBZ:
|Z8NR9\$3S6\$ T|YOEHYD1N!H M5^|(UHKH0^8A/D)4GLD)4X|P2^>NO/F (GRBC.K|C|:7H).L.2\$S=9L/_ M%6JF-
I0Z9P|FNK\$#N@98!|D BRU6PVNL=P7:PTNLU&\$ X2S7WE7 F^OB8P MD|PFV>4 3|T. UN-(C@:A|UEA^?4ESBV0.5-D^4-NX+4=GI^7V> (0:30B4
M^?>M\$C(16J|@6-|5?78M^PDGF>C).S#E#~.L 5&|~!~"C|& 7%3+ M2=&3G)5HF1|QA K-OY3P| 8J=@|48G2^* 0M^O.DO^*75^M1L:SX58^MO
M^5B|7D^9|:G|TKW^6PE^T|S:P.ZUDA|J|B6XP7\$VAKR|E=(B +.4|I>H&1L~)U ML38A96^Q)~DUR=:3(E^1+\$2:2L=^*F+P2N=.S>|6|F)5(H/4T|(B8^3B=-B
M^?|SLTE28TG@H(#S="K=X14-2&>:D-OEO0# ^/3HY GP?T3D<-OO&|>S M3S AF&0^LOB/8)D4=P12LAQG7%+SAU\$#>W>#
(H^O^Q^&|O&RR72EAJ2|ZT|(M(PG>F6EL+HR)3)YE:~|2M|J.674V&PN=|E. K=4|3\$U5^R#&:TS 1^|A0VM M^/Z\$5 JN|<C%>9:G=NT^_2\$R@E2\$2|?<
5 PHMXZ|P>UN3#^>|C|509UU^N MPU2) 23BV+R)|Z7TDE|ZVU(MQF)<8^000L.D|ZA+O)|JVV1>*.|K^K%G7 M.V6^P2@-|JAZE|
DXAZ^&^%!!2G|4X&A-E)-8|HE^|I|X=UCY MEF9(%S B50DDNA+8T^>8M+4K0^BQ5^\$^PKT84T 3XHFG9G1@|8^H^>+&(^=)
%\$&S\$S|_&FUIHWG4QE^>BTL:AE&3|^S |RKXU|3|&|3LRO:3 WO|B@Y|> M\$50%ZV 1+FXGWWY|T|6&J8#V\$&RG&D|C|OES^M^DZH^..TY|:
(4ZW91^UV:7FQ M*\$7)X5|L.D LJ6MV/ZB5LME:\$ E^475L:BPEEJ8^?L(4Y=XO|Y(Z=I2N.>+ MFG)?9
S%G.\$<|13UQ|D|14JO^PGK|POSRV=:K.6UUZBE2C0UN&^&NS.C #_J4D9V=V M MY.F.LR0Z7^IG)-H?Q|V.B@Q3:~|G=^#!> />M97|JPKA:>6M5|I
XT(|134Q_MIVQD^HMI-PS+|JVR8|JUN17WLB6G24.Y\$J2T|4|3 LE^G(0%>DE7Y)2H.M|5QEX%G&>2(IL4.) MOX%3WBL|L:O |*TE4#|X5T^YCR|BQ?
@.VJ0W7.%#O M;U|HF|I?^:D%?WSZ|:~?P(7LZR=PVEI9Q|TM/FZ?M885961C6/VHCX9F3|WS:Q+UE@H%B& MR5=8B|I(MR%:D;G|U|/-X4S<^?P-
T|4|IYI<~?@S 8T PU^AF-2N|=-|SD5T64BOX.^<3R&@>5^G+BU4 MDY|^B+8+@ /9E9-3^341G1NUGLT&H.U^UGNO.OZ3YF?BN:J
M(CSAG3R@KRJ.8K^H^C|9|NT~.Rd\$T7U4+~^XC|N)|N^S^UH3&VIK7&:O2L|&= MLJWN8(4=13^YMC^|8&N^W^8|_#N<~&# M^OQIXQ0|V3/:Q&W|
|KUW^F9=WT0|I?(\$6.>)6V^(@Y)|KV G?>IHX/D3QAE6 M|HASUQ/>^5 TLE(V|>~&|&28XGCP7F>M-U+.\$.^|2Q|4.N.O9E)|K:LOH0+
M251BCF237|&8D|JZ^N:Y|..#.|I? ^+^?XOS|W|FI?2Z5N|?H6|G4+>Y MS|VT^G&GXU7^&|71< U|6F~:E9PWTO^*A5%SD^2Y|I#@G9 |BIS5J|@?<|C-
|JOS.P2(^>E#>@PT3-Y3&B^PJ^~5 M4^M-DE#G8^R\$A^COIY1?^C-C<1^#A\$>* ..87K85TY><|5P=^&OY&.O&R4 M_ND^3#VR
D|CCG4+UBDO2.631^Y^KFVU.6CYX(W0SQ^|MV^ AB|JZM> MVD=|FD6TECM\$+448B^M\$S4\$J:TKC
M.44I2(K.E9G^Q) M(U.F^T>LW742: N|G|K4TY>JHR AK@04\$S2Z P09-|9R MR1=LRH|A|>(>2<4NSOW^&F">V-| ^8C_1|NN-.8|BLAK^I:Z8AD.9|D^""
M2BS\$Q5(-|AT765NR+ROVQ&D&Y4+6 ZL|!)O^1H9B>^OM;T P0:E^H^<=>NY7S\$6Q(>=XV?| MV.@?+X:~%SH A^~L.#-R|GEF^S|V00.A@-8V-
I2|5L436%YWC1? MO (G:FAI)=R:~X01^~^|V<~<#K=U:QU+K=&O8THGEP56>7ZNWZG6-CZB/G.JR MCGU^G5GN|-|2L+~^#|>Q|VWH=M|W8^
|ZV|NNMGI^H?|L7W.XR0554) MR7DX9(XS08BZ>_./%T7|> %9KB|Z57O!M<~(R-G^*66SH.8XY#8#^Y+|> M(\$W|/I^~
\$)+>D254/3D4<=&5/AP(75/H.3KC/PLTF0^S FRX WC1^O&4 M5_Z.U9Q>@CY(<|LS6-8I&<#^~V.DDP>O@:R.9_&95B&^"KL^O?^10C^?K^R/?
M8.O|L+G MLPO^R8V|V^X|PWN.+|@#|S|RGXEC<C^M^COG&|N#18YB#>@64D| SX^A M^T|YA W39T^2QY4-FUSDRELTHU2YQ)PT
M|I:&@OJMQ&\$Z#-Z|?W|W='05L>^3CW:X^~8=C|I:~FEDWIO _D/SM='O^IK- MX|J-9M-H&>WC9K/5:2;Z 4|S-3:~+OC=9KAI>VE:&U^T&|/5 M8 M;
(4TW|HEVMF^TEZV.VWA^3MIB7^I8T^4Q|0/DZGC^<|91:7DQ>T+ M.; C|E|X|R PQ\$U:ETS^MXR^FN|O&^7JUSQI?^O?&A:6|VF5G@420K4^G?4 M-
IX2EWD8N.GE8@I-4VJ?)5^K^AG^\$.SD1^+9NU5P?7K6707M82BRH|JD2 M4&WCZ.SK924XJ83MG.D-DOZUI^MOG_4S;\$F%#23>>~L(7?5V^05V60/2_7\$
M1X54&)09EZ> 5OJ2I895^~JYWJ3&=A^7-19/OE< PFIO|9=GI@T^=8FAQ5 MXCRJR^9I6^HG3|JKC9R>?
^X\$)ZU+L|P|VOWO64/2XVY^2L5TEUCJ+5^JZ=VGE?7JY:EW3Y^\$KXSIPLQ4^~WM0ZBY^~14^ M:1Q=2/M0:2Y9EZ2XX|0RS)IM|Q|U|I|436|4H
SMV94G%94;ISC:CG|JZHP MDE^8?E^&H|H..24WJ5>E^ZH8D:3L;|T|RL^SN^|+VU5ZX|S\$Y\$BBOQ^A.MKNW9|?M;J|VFWZ|PT.A^7* M?
_U72L8 4@:T2BW(PF06G&BF#J)^*>73&>?1JTS-^S|! 5(T^AQ*)+O8|IO M7BLB:DR38N6G^2P|F^P^WF1^WG1VH^|V@ JECFO^Y|>?JZ|G5|V|?>K=Y
MS-~%DEU^0S1Q|U|XBC(5REH)Q54^ (MGZ1|S?0.~^C'DG^|S4:FX|X(BV/Q1:~|U|0!~|Q\$X?7:N\$ M86|KOY^7&R3RH+DAM9|?C2ANR|I:<3_CW^??
+WZ.D4^2|RI?WJ|L.G>S^K MZ\$>="W8T^S\$&9^@|4C\$F^NLL?2|I|UOQKP6>F^!NW=UU&> 21V|UM_|J1 H^M^N8YD3_QODN|I|
MK^UG45|1\$15^LD|:S|@~#9|T7:J^2WY0HG^G=I-W/RT3^7F68K^9.00K>@&N^S^T^J| ML+W4+5ZB86?2TORJ5^N6+>V^M@^E01^T>~LLV|I)-

ZZ=%%^U*F*J6. M8:N>RUJ09-(O,VSS;W5=HJLJ"RX(^1<1J9%P6=L:6MOCH4?XT<LP/&S* M@:5 1=2AFY@%/MM@6CMDL9Q0&@IDJ96%YZ.S \$YV=30U@CIX 8:&S=V-./-Y-(8*+@,18TIVL.A> G\$SLI0/ W?@M+*%Q\$=SBOYU= ST0SIV)RH&R%?/:IL M% JHHY-R&1BAV3:GK@6H@>N:0:GLL A+T&W8VNWNLN?I4F-K0GWT O (M JSJ3C_0' OX0)01^CNARN/(NS 5QLC1&^EFH0<L<2 1ZS+TAC _% CL M=0M.8I"=70Y=81?7O=R#"<=G- &&7Y@>Y^ 31?J741(RY^"D9_13"< M1R'69J5E6) B@XCQ?7 C/R/LA=I2@. MS0(8Z/0.%C200^?YQ (3^1?<^>8Z(S&8&Z? OGBI4F@6S2L1UKG-.#T.* K M/4I>L<K-R+(O/O?V9R'6Z%JD\$5#%R%L\$P828%#BIY@ ^_F 18T^2DI=IWAN2 MWZ&WWYLRGS*Z K"Q?I= /89T?/BJD9\$SCG<13OR*E4V6I21+IM/KY53 M/C/E" M"ED&G:XQS@NSR65V#K+* Y M&@6*2BMW91\$9C#T@ Q-65I&TR%U:;X+*%(E=XNMI9BXX=>DXI5WX7I=S:S@GVJN^BD-R2I+5 M=U'1% (M%0M1I=5<1-IGIO^>RL' T2.GN7&#L9#J1Q681LBFFCZL\$80"%IK5 M@K&C'CNY> ^LK" IDY^>D+5N ?*2*P3N22606B1133R=U(^UZT2# IV"Z052I: MXI?N%"OR*S:S6D745*RVKWKE(I(IUM)70*!F*Y3K)27JITBS!)?K>7?TN! M? IQ(K)IOYV&RZ.2D'=IUCD'I'K<I<I[EJMDN'2IQ<+V>: <44HYVU .LU.5I W%. O/9:D8YJGWF5 MGN>>C B 0 O:84EEX'.OQ\$X1N2X5VBP2Q +9T5IY%D^B\$5\$M371700' R- M .5I< ^<^<F&D>2D=90EYU.C3.C6#I2?/9M2B>2>22X6@>0'1.1%>*@1%6*A= MI+00D[6+E]9)E4M(J6%%%4Q1:R07BH6:RVDAHK%00M07::7X2I|X|+5 ") M?5QVI+135.JP%@V 60 V/B[6%]>I-Z3|=PN4I..Y206GDNU%|=N@4%Z M7"W%O1"CU5+<+Q&=DZEEZIR1%>#2:2*U: ^XAJZAN6+E F8.)H5I(("9I5 M5?P+Q&LXJ I/H:JW^I^* <05%U^*=0PEH5^*>@ ^E>JH< WX=8"%S%.0:IP9 (V&5%+70<^>Z08@UEI|BY7X M09U56EY> ^- Z0.20X9MH@=>3|ZWJZHC<83^F<I4KR/0+\$.8\$43+1\$5D=IS>K\$ MM?@'V"N3/GEV3GHA=&F'IS:OZWR\$'5)8<|(&|LK|POI|^V10^R940>C%XZ5QO M9\$15I* XRO0I.NR"SI2Y*8"CF+PJF85EKJS9EK5@I .@2E7I|YWEU2U:K1 M6E8T\$02I/\$ ^EG7YKC3YT9G-V-90N(I7T^IZOKJ)TCD?^GMFH\$JI- =B07.6 M.I. TA,IDS#2.2Y*W*! .0&>8-*Z4I=5\$A(EL:4MEI%|DG:~+^>8^ (MN^DSO0M+GIO K1/OTB"S4VW2.I2E<."S&:F<I M9*=XD<1+V+G.S:X9ATNWDG.E@+WJ50M0Q04(P8APLR=I82I|I%|@F|IWR'M7 OV.)4K2G TCUS60%<@LU:XN5R?Q'AIT? HWR?IDG84NWAG&AZZU<I3 M@.C7^*ZBOIQU02I2A(U D6)Q%)12KN2Y<5IOL+W81 2BE\$TDLQ3@|C&. MOI@ F.?&: #*42 8.B S!+7AOS ^ C@N8^3 |PMJNVG4+BJC/NJT+^6EVS7 M<I:6VDOZQ\$35VW\$*H6WITOI5N):|L|H3RTGAB MM6>1DE-4VYO:BNAS.M.KJTX+PM540QJ|>> (HP@WZV?R*VU^SIRYQ?BLNCC 19D%J|I^+M|^WICA92YH:8E%ABSCG&5 M= :F266Z+YXVVPVC7YWT&P>%VP(^&D\$JIEI- (WOILV.ZI-1%P#- PIR^>OW M/281TB02@ZO/7SSN-TNB2?ZFX MMB&TS>O7I =W1W=7 O.D>?O&XUF^W7MHL7Y5%TC.VI .D+>1I M\$X OD.VM@*IU^> <1 ZL5 ZL= ZL3 ZL ZL7 ZL? VLO ^LX>.:R2+**D2QC M).L8R4@&LI*1+4D:QG)8D:R6BM9K:7L*5FM59+YI+ SF@I@Q-86@DLK026 M5@1+*X&EE<#23FI|TEO.=MY.5FLGJ|63U=IM1=ZZ*GHDVZ+7@/:#8. 4D2HDLT\$VIZR4GTC#P6C P6MD9M+ M+X& E|8?2^#0=8N IF/H)8? 92^#0%2#6.#KT5:*?K*?G*: 02:2@)-/X&F MGYOF7V^9/5^X>H|^BI9?5" 6LHTU<)-(.SFD\$S2"19I|_RC\$|2\$SIW\$* M.:TLT@|K*\$SM- (^*2715P3<)<1@NBZ>8G2>0*6/K@IJC(IJLIFOT7I 4KZ(M8.C&^ V|G9: ^F:)|QMC3238%ZSEK+^E.I\$D/H^?T0: ^FW>D<@WX/ F2 MY#M=O% I9BZ7I/BPW4Q6YM^H10.KXYX6K.M^WY2@12+>5X6D% A(3+ PZP M\$|8I|L>I>SV527B?"^T\$|<< M8:M\$*X&K4I0Q-5- P3(T=C(:Y:Y)HMI|=YDZKDT-(CD.H4\$.NED&|Q5>R7= MJD9KBW%8'(Y^#(NU0V%|IU"(B5&>NZI25#L=G8 @W.J<1I|9NU0V=T15YC MH0F7H07I!#&!(=(A"CN\$S0SIT7I6I3P#8I|=J|QD8&^|IOL\$M|JMXK>>8%EK%WQ"U7#KE8:)" M77 *5<*M5OQ&=\$I7M&E%:DVHW^: (JGT^62Q0D5I+E.F"O>N MI74(TQ@IV-B|J2I2RKVS9RLXVILV=I.JI87I|Q(U: MCIX:B-^IEM8? HZL6I>P4KO_ JOLR-KTE9I2V\$M+JFOO@A^K"DZ0I"C"X"VZL M35 "ZT"E9Q?I695Q@I2^OLWXLJIZ&MOI\$M|JTDE@I|M.:+GB\$JN 7I|SB=I\$A MM&F5I-H4L N>HP?SIRV^U4+|WF^O N!|M2A@ M|^|88?IQU3H)IAZKG\$58I3CU ZOEP4K 80>CYFRJ-.088.&I5XMM;IU=*M M\$ CAFR FGYY @&B%)LO72WID9X|BJR0.K5K;Z 6:13>#UE.Q&6+1DPBG M">I?IH=.9#KH^I-4&1(OU<QI)^7SI? #X&=U:|@KIT%^_HITW..4VLTN M P13M02"7JU|63M. 16IDFJ=|0#1%Y*Z'6CL6%\$ RYI?CX^<(T5.U9+C:FU M2W(M:*9RFDRMO9FI03.54V9JI? <#9JIFC13K|77="TITXTYH6|PTU.M:RT M7M.OI =PK6AGVYVDR!@82|NQN.O.*):B4%^I5PD@Q:RDQN?47I|'W8X_NA%KK5 9*% M9+&F>NU=NAN"7Y+;I3:KI7 =2GIRA|=^:)%J: (SAO+?KCJSEA"R3^U(IY M ^THW0:DELFYM? 9H+B^9KIAPJ|^P.F 79LGF74I>HP/HK>VC%NK3V/ M6X#;SOEV4/ITZS)VGF^R=HKR>P8U2U5I9V6 X0VR4>XF9I1IMQGI1VB)MQ MGFS&BU#: (=:BW#A>|#Q<|^APIT%Q@6\$SQ2>I\$5I.IRY4:3:0^?#FRA M+5%U&=3:85 5I:J|3=I 0^KG/AX5WGOIC4336CR5KI0:H&I|+Y.=6 Q+ MB=)/D0V9.0S>?C78 VL(E:-F EU16B)"IL^NLP/G\$=S? +#-F.U|^P -E7+V2: MCH.#IN|40BXUMZCN=B|J^W&0N:2VHZ5?3C:C*? HV6)<10Q99:ZHY6*K5J M.:#S2MPRZ7+7I-VS^>F>OA*27I-1C218V#K9.7W<-FJRS>I24SJ+IDLR%| MG1I-7Q931I2E?K1T60T44U) |I=P+11I|TQ_ |T:EF#WB^W:DVBR\$?NB:E\$ M8FK5D9BJB>GU:|&LUU^E&7YWS?S?Y2%U5TMH\$|=N966I=5=.M&%|^>U^C9+HT%|G5C M :Q:KNS08>>C.I>R.VTK.IUY" :TW ^?%|K/CNT%|J2^?X:OA^5.1IIDSW MP19XJ |IJJ3>54+ AI&I5Q6I4I|Y3C|P|W^Z%E\$TQ=>I\$|GND)UZP:/I 5(4 MSQ+3:PRC=HAZ>N"NLP:PZB=9TCB|T4V^X+@IA7Y\$=T. >I7\$3T)/@DSMS MML&TJ&:WT^C2#=:JYIYI:F3W?+T:MYEGKV|SUWOUZ<?2 I C68O:OIVCL M/GMDWU|2:1A_ O#I:GII^Y_Y)2G4IKG3/U +%Q_WII?6?2 WRUIN_O9O+ MUIVK6=?I|OQI=?W_3#&|G\70^7KR- ^OVS:@WU 8I)> Z7:OS6G2^_W M<^|K%|IOI6^C^T^M+|W3R:I|^QOW#K8WMA=9IU /NK/PD 2.8+>^:;S2 1 M2^>U^? KQ87S >W=X^KTHWQY^>+ODI|U|@:OXX.I|I>O>I>6=6\$S:OUII MZM_YIOWR&N^&G^&^&^7+ X2_KIY?PS25:-??DC:EZT4?VR8LRT?4ZR M+W|LTJ.90=9I|IOU>|9V14DIU1ZHG1>N-F@KU22HK3/M&W/@@K NX*97?FF M&YA#1%WP:J9^HV#RW3I/K%L|6&3H7^VXKU5:5UGMT%@F- I9IYPC82?(QLR* M9O"JUI8.L/L >6I2&^OUIH|YA4A%+=O.#QZ=IY06K6\$AT8YH:IG:9UF M<98\$7 /P

M#F4>SW<4MYQY"+-&DJE1W9U>Z06"10F%|YH"5L3I5L73>Z;Y5L9)&|0/4
MJ+V>^/65%BNAS|MK2^>G>A>U>3CDP..l20YHD4F=>.CX\$L33P#%6"N9%ERDVYME>9Y13S^/0FAI|J|74Y|NRP6-"C." MM*WO1:)|(F|@|X'O&
>5H,5(@&'JHQ*G#(NB' XJ18FJ\$S0\$;OP C.%H:OIVQ M3 O/7:S)E'3H\$M48VV.KNKUYI("X?Z@:0PQ83P;VM)E|7:@?>|!"N:DP
M<0>=> /PL(OJ\$WMPXG(H5 P|T3UOT|> |"+UZ20..>+F.#9#E|C25 +P\$;3) M-5Y46\$8 @L%M4)K|JW#.- /092%.L2W<44BMGX P)0&406CWI\$O'<7(B?
Z:G MXWY>S'W;#EX-I9UW'3ON'OH4'QKAXU'R|QOGIOM"RP"/<RGZVB&JPOL\$;JN? M?
QA+*7%+K?+1|SD(^LNY>)8R|3TR0N8B9=A.T=C3'P'M&7+&6Z<^|DDEFVGC9VW M GX *K-.4?T0)WH:S0: #Y6L|KV0*XP6>921)*Q3<|JE7Y)& _M@=C^?
>|!"UKT7FEQO|T<|4Y3<=(48|J?8#|Y%B|2L,B5?<^R#4A><.%G/2) MOM3|_M;?>LYNH1X%Y|)T%"Y.*OA3QIAH:4Z?/P1|V15C"l"+YK4>N@V++;1%
M|B"TORG<>|UNX*KNZY122 "VK-X7K"FI2;=6 MQ&3%GZ|\$2 QZJ8|_JLR<0
MXV^G2VC50XE5^5BG8"(ZF|M">M9*@>Q|+H.GTF.Q4>=..LCJF J8G|O |...7\$PU9")7Z M'C32|U>0F7 X>Y;.*Z\$8T=X|03G|/=")63|/61:MA&Q4?
B:8:%^VG.?|(1#V: M|J|U|O|K|U<=|15"NPI"TK+B\$ 0*WYU|BC:XRO7AVQ;|BQ _%|+ P04 M" "M@&99 O|+|L8& /|@ '0 &5A.#(Q.34W.C
Q97@S,2TR7WJ|U86Y7 M=6TN: '1M|5|_JLX\$+T7Z|@>+1(" ?P.9^|:R|_TFV _|NF001(22.;&TET M20+3KL5 M|J|K;W?<7G|3'WJ?KR|>-5|?
N1.SQ99WH|J9R|>=C=<M\$ M631#0U-|")2|9BZ_VZXTY%+DU?%2> "1?=-A.;O:D=F|H|FH H#U^BTNYW+M/P.5*2<.|W=6V M|N|NFI|Q|J|TM.Q+
|AW|G_VA+K?V|CY/P39R3>7TJED|I|ONA4G |4I<^?Q05&% M+&(E._\$|^3|>97|E#VNY;F*11EDX;LXN+Z?;EHQ5X@8LNO>BX>.TW;N=SC+B
MY<8RFYH&P52J6&|W+|J2<+&|MW;|3A6L:SOXN@OUAI+>P|O|G\$SPM|/T9>2 M>M9|&4|EC-|N*6AMHX 3^|Q2'Y3|?
&|80*9RBW.=>#TNGBKZX+N+>4Z|7 M_VZGBUO1B*GW5|9Z8<^BNHUI>@OYQW"U@F7 ^G|O)M*WMPV%|^"C(MO'.N'SNZR9@ 7'##CO5T6"H
NY0|5Q5B:8\$ NYB*|4H|3(7.#@<0 R|C|Y M4J|_LOG%<@:4@S/93|!C|@Z@-8E|C@QF MPICF @3LU)@E8Y|""H|604'O*Y^|_J9S4J|MM<|5?N-
XTB&|J|EM|J|K(OWY MK<-6J BU EPL""").F4/|(+%D%Q_F.D^H|L|RE+>M>N+|/|TK"C|E\$*1;S.^SB#!&>HDWN;V2|NO.4'X(CR_H|O4@-WFM7O30I
M:M+9EQAT+LBB 5CPZ>7L|URYHME:5|3.).YEN6_F=5C_A9|!2|TB M#@3C8CPE PG#;D3|CZNM6=20N18|YX59<OG5J_|JRN|&O(Q4PIB55A>2|X;T
MP#M7>@OD:9(I|_S)2.5*3?AW%ZGED;X|J#-W8@K:M>0GKZ4BUH6)HAH&U| M+1+VB3> %|S|JE B9\$|X>BA(8<.BZ
>#BA&B*DA4L|P^<^XWAC^%9%6Z M|N|-IC|_I%#E:A&V|Y;4^U?<^I5N#|@UA> "K88"Z|UHC M% M;.-K.U@UD'96?3 5>NA3XG.\$|B?
%WQ.VN4)DNU|LPZB7K7:6-GU8|OP1|YKIPC M>B5|1|KU|O;|U>?<T^Z"DSZ6">3X RR+VEQ#;O|U|O^B9 M|RO>#>8@F RH#6K7 \$B *J\$&9GKS').|
|XH5ST.=17NO|Z8PA"|"JV&8H.RPVTI8YX*3^|K^8Z4U>7YA&|^JH|O8.CN|J M4PT>O\$P1BNQP|U>U9V6OA;B;C|& >POW^ONC4 _%>AV24
M|EOR|J|I+M|E|2EK9;5YT2.WWE30DV=>"/O2X|4\$|L#|!|O (^V9EET M_A PLNP. +@=- 96\$P.C\$Y;3#.R+3%?<75A;G1U;2YH=&WE
M5 _IOHD@4 |U|_X<7D|VW;!!6U;7:5|4&D6Q)77:'9ZX|C#^IW_-|A;M_PV M079+FI;N|OEC-|O_F?|WE?|XOK _O4'|XSRKAUK@O^@H;O^E|'-+K5/TJ|
MM@>8SR>W|FW4^>S^?TJ\$|SR3X\$&\$Y\$;.@#+>.*\$*W.T-C|@D4M\$35Q4Y/MTD?2C-|R\$|MMI(\$21\$K|DNI|99IC\$WG<<-63.*@W^D9W3\$26?P
<:C|D|AX M5|_J|J|Y9**EGG"5WDV>KN1MDRSTM|_8Y5*F2;U7|_I=-9VEK|Y|Y=|6|Y|G M|_A9>C?6S = #KV/<./9.2Q2UEO<*%K|Q|_U|U&U+^_FX7O3)
|QW/|I| ^M^F\$F5^%?>|9R|S|U<|SV >+>I_P^54H.GOO>Y9-&VWF0|I2 M|_O0&^9+H<@Y9P&D|J4<^|C<@-Q0^<80@<3B|?1DF;ID|&|:I+
@(|3|:) M_KX&EFP=<.!4?W|D^%X5ZCO2)|>R+*W|D@YE4|S|O2@ 0VB5|3@>Q4X4.02|O|_MTF2%ZX&N8;S|Y|Q|O|) ("6HW|Z/C|HT\$A&08
|) #%K|J|_D+|_15>_45 M0%9I(4|L|(9\$4-E10Y/Z49.71C|&K@83T8^O+<X92>|K|(5PC^*|831"O|VA8 M|GL*|RAB 17'1PBGT&?>4RB4|'6("M\$K|F(\$;BV;L-
_U|_XZB\$>|>U|Y1<|<4 M_OV2G6U/8|=>C>P|L2^9+!0;M11_4.KO&C?UE?|88 _9KZ;8WD M7F|7PCNR N2E|KU*34#B^O
_B.|J|Y>"/>|H|K|K(L*M|N|XB|U69+&^J MWG|V| "7|Z.\$3K=F C6CDE9Z|4>O>GX=F^*Y|@'W|OUY71^S0X^Z|FV M%GCS *P<+
|C=Y|/|Z|PSOP.S|E|_U|I=3D.L824PO+G|B2,8R|S7F9HEV " M<|')FBN4|JL8EC;#P<>H\$S|F@|PUSG6|D5,4YXH/81.&0EM|IP>*J|J|I
M.R|I(5|10?T GAX|V|RTXU_Q^#X#<|L?2\$N#>P\$|Q_.89>5Y2.977G-|<=&K7C^>M|X>:RSW|1KR&E|FE|Q|B T0SCDGP|_02%QC|/U9.(^#AAT^|KAF M-
^|V7E&U\$5?T J7QF^W+&^>|OHO|N|3Z0RT|P|_X.V_2%DT(C|J^ZL|O|MS:MZ=5-O-|)4\$|L#|!O (^V9ED"/3ISP@.# _= 96\$P.C\$Y M3#R+3|)?
<75A;G1U;2YH=&WE5V%OXC@0_5Z|_V&\$M%4K|O|C05KN0 MC10@O49B@26I=|UH\$@>|E|B|IXVS+O|I|Q\$MAVBRJZK.XZ'4@|VS/CYYGW|OHEU
M'7R;V.=|UK7KC\$ZL<*O&#BVE;|_L25=KUL#6?C2# "#VXG|M1\$+KOK0.3.% M_4MI#E-
Z#PN1\$FY4P\$;X5+*X@8|H.G^MWP|2|E>|J|T&F@-0|S\$U2>|6."79 M;J|T:MC6TW8?F1Z&97\$R|X#N+H3-U>|LSXE|'|XH_%S|_MFN9_GV)
|MOBK|R6+-_4DXQ\$<C%|020" M2\$;1PN:":E Q|J2|R*%04B50C^&^H^+<3C5#B=)=>@5XB?;BR|S98.PK M(5|02|IQ\$6P>^|X\$
12X3X.T73)8Y|IH#5Z)X>*(68*+6T#^1SX_!D4 MPQOP0'H|S\$X?7U\$>JF5YKGM'KKP2R(4|J|XF(HK^FDB+VOR^K\$VTO&N_9_|+
MEF/9T|J&|J|3A\$H|RV@_5XP3C2'P'R.64CEV1\$&U/P|TJO181JES;|6R%QK M'90HY=GR6Z,6'A'35*|3GXO\$ DICE^<Y|Y% M;J|U-S4^-
|H'R@D5|45|>|!00.<^>SQFGMR7Q\$FPP2N|OY|G_WL2 JMPVOW=(NYD MX^6L6B|DIFR|24481^4R7I9D6#^"L"%Q)JFFN:VGH99(D*#-
LM1.&+&SRM.YH:4D%15\$1B6|R/"T|T1^266|U*7|_V@#AU9M%|^J2AQMC M%;(^3,6Z|^YK_Z8 <2H^<|_O79|_R|J|X|SV|I|>|!)?
<7A|O|F_W@WSWG|Z*92X8* MSE#>#SYX-RC8U|!"^&CEA* I>C#55GNA |MB+|E4|VO>@74;XK _+> P04 M" "M@&99R|T8X|3>T@ \$0
|U8GOM.C.R-#Y.S.N>^>D|5U1 M<|NZU|Y^?P7|>Z:35M3%MN|F20CRTN<>#4M5NGWYB=D9|X>X+<|^!>|?RZFI-A|3#>0O=|JO*|O_C9OH_|
M|?N=V_YN|I|W|_YYP<?GOWE|U=<8|B" T*3|<@JX_G?5M|_8|LC(QU/P MBD|_IG;|A+98;UV?W_VF9IB|TP|Z:4CX |'|IRP3&(KL8LF^X<@*7|I^
MYU@>N6B\$H+>#F%&X>2XO|I-EW.C|F.\$V\$;663XV|?CVN|5O'V7K@88E? M;-KK|L|_0(C)O1/3W+9&ZT6ZV>^|MG6|PQ@|J|WZ3T7Y_VLQO\$H_|M|J|
M|GZ5EF%TUK65A+Q7'_U_2&1V|^15C+VH|P;U;YQO\$>C>?>AGI;#|LSB^EBE9Z@5 B0 M5Y|KK\$SH7JPA|O^>|4Z.PQ?
7|U6)F\$|6)"5T>K|:|^@Z_7U8F4B#^5H M|40ZV9;|XC|Q.NW S:4J|15|/&|Z_|C|N<:;#04)71|C_@N|J-C.U&?3_U=+2LW|I2 ">SV/HC?
V18>^8B2+>F&U\$V|I|8 M#M#F9\$#?M11A|I|J|>B9 |UF8U<8\$4L00\$B-BLWE->^&X|E|P2X*EU?O\$5ZQK6 MSYU|.84K\$|T1,9|EZIBEMV5&|RH)?
X?Z^XVO2*SOR^H\$T.&9IWM&9BX>OZRT|_@KK\$EK43;@|R*9\$ G6,D\$|L M-<^BL|LMX3TPB>V\$25=?SKU|3|IGMB;|J#|?2MU|<@|5P48+> *
P(C:95A M6TO4:*O.K\$6F7R6?&Y#2SI(2Y@="O.ZH5\$S4,4\$M|JFCHP@XA;W&YHTSWW?N MD>MFF%&G.UEB-HR5|\$\$\$(H465@C?>
M9(GA,L:2#75&DN^>#H24NA|N|Y K|J|&792 FH _|F=%S1^U7..22:'1? M&-EEDE.A\$A\$Z_BH^\$S^P^O^Z.V SLV@-Z|&!).TRR\$|BQ|_L+.#="H4TD|17
M>7K^>+|J|>G>)|B|OFU8|&|L6&OD|O|2)3^8=R5|020-""\$C^JTP^Y.V=RE MWIEC*^S8?0KGL^Y1RBB 87^>#MB>=>|_GB9-A@VR6C^K.1TB\$H_JR?
?^A|M_->98\$58=Q5NRZN6D&9|542;USXHQZ<^<O^Q^V>\$Q) 9V5CKSPR;S.K.C40 M\$S|J|J4).2^VQ|%2 \$|/O|HD163MU^M25|O9&D|ICYH|8|Z|
R|A=O-XQOCC?_C|A|Q|9|E:"%Y%\$A526YE\$>^>Q:|)3|&@+>A5H0 M^BGMN|UZYLL4|@L@|9%>1%\$'_1D=>P|XQ<@.#^|_J^D&|7LRG|=Y2ACY,
M8K|NOX\$?>QOZ|R^1A\$Z|H:~?|38|)^080J%=P^O.R|T:C.M1?3|(1|6#5V MYFR).8:1SX=|L^O=+<=>|B7M0SO PH^|B@_-R/MY^1M^F=9Y|1-HKFU8
M3U|_I= C|I=MWOQBW" _O|HE#&=&K^&#O+H00@?|D3S MNM^2ES|JDB^\$129%19^Y.\$*2L+DA1NRC\$+|EU7D-206E&JG|8Z4VZ6D2B_M@?
I9|G1#Q0E>D|T\$9K/E.W.*Y|G|5E4%6|N:8|K8O|I|?|+>_G _M|80OWE|>3B8C|OQ=OCX|I|
+OGS;_UW#_ZU+OO>K >+H_F5ZWKB^GG;|O>P|YU&G4 M6>SY F|@G4R/W?3UB=Z?^MU|Z(G>=>R63QKSU|?CFZV^M?|XZ^|.C >+?K
M=|YWK|T=GO;7WL\$>O>E^7L;O;9.HE^>+| M@2N|3E'|_M%64V;|HE;&+>.\$R4U|I=;F^KD|B?OZ7P|L|N249G|Z;#B+1^A M;|D|_-
J4)NQG5U2%\$H5S|2U|3SC&#HV17-^9;..L.U:4+C|A&(^J|M5E SB MHBN2-R7YC |WQV\$U^VHA _5R_9.L|6+!^OH;-C?R,1)LU"|15MW"O\$D;L<
M\$>^<#%7X2C^P0,1_|JDWB3G&.R@-A&|8PLN&-Q-O|2|TF#^E^_9- M6T%<-A^" %U%-Z4)LRG>@;|WM.'|_|^IF5<|2B&P(N(|XV2Z
M\$0.|91;VO9;D6|N2|D\$S|HD?Z|T+>=X;+>|1&M=PF@Z\$5NKE)7|KVG;HC M;^#CGPZ">|_>^O(>_T9)H<|U|_SLE<|_1+E&PPM;D M_W/MK_9
M="!K\$S|DXBG7*&|T(T;J|O15Y#|>|N= M|E*%2\$SO=2|YC6);&45NT);D|M|W|J|I?#* ?(6V|R/3;^_46D^0TE;Z\$J?KP M9GP=^W;6WK^>^0IPF^_JK-
|ZWRQ M M-J|J|K<|K|7'BK|YMMB|(K^7Y>;3,4<+YMA*^@Z|B^@.32;DQF&E063.2|09>2 ME1COT;GMZB+WRXXJ|\$4YQ=|D|
<2@>=>1 C=>0D3@#|V|O?H?|EOBYK1P'(E M**C|2-^@C|J|J|NNO|Z|19)N R^H;G/U(C;UO|HMDU^|HV3|Q^>G27L;M^V9Y MLU6|4?
D.1)N6\$|*Y4=Y>5^G|H5 _|OQ*O\$ZR<|E-@9\$HHMF 6|1# 4XNNK MA|POXHW|F2W(1 _=8\$6IWN|O|/2|4.XB1|PQ\$|B? T=3I(=?E^"8X+=,O
M7^2PMV78#V9Q(8B|3YA^SZO?8B|3U6OZ|!-!_@%4QKHROFS4LN(PZDXB@KN.
M6FMQIH+>92>2M|_+J^D.9G|R4D|J|OY=Y^T^E5^U3;&5(>7U)&S34HU|C M2D43Y_X@O|G?D9W|UTGG?ADKZMEU?
61UG|JNYU|9|=Q1NY| =>?^>=|JKNW> M^M&W|P|S3O5>07H|X&7Q=U 4)OXTW67..8\$@MO.RKNY^EDMS*"|>|_XU##|@
M_T'OM|!>|J|W4P/W03.ZS^|V> _-XV>O|_6N/A?HBO|TQ/4T+JY7\$5^S MHCH;#K?BYZP=|PX273DF*FB|@5E2-H0.N;82_<8G^>URJ?I5L|5|5LK9|J|
ML+>^!MFL1|BY_XH6S(9^I_4FGA^<C|LOX:#F8?> 59XO#KPR6NHZU54M41M|B M2<=>TMP2BRI"?M;%3 BNBZDZWM|O4?
YVD0B|L6Y6C5E\$O|W_H<=&G/7^_MG+&|H|Z?QPRPIYAE|5 SK|LM>5XGMCQ+I2^VP4|L%|HCD@X^W7%7.CO M<8(DO
R^5)J:0C5R)|2>Q|JHSV*5JE>6B5-|15?>3Q13N54|S|0S;E&6|)' 6.B|Q13QC_|M#M=D^1ZJFQOVA+>_3>^YE
M_YB^O|F6\$U>5 _&+JY=14|4CNIS47+DRK_&-D 8^@6%6G\$7|J|&^>D|A;NG M 42E^XBO0|556(<+&HMT1|MU|DN">^Q2+LQ.YL>-
W|J|(69WC DA|JY^8+>M MB^>S=35%YFK TK/C^NMLCD) _<#>|_OOT.(D|LLZ_O4D:*?Y3 \$&ZN4-B8S0+42 ANWK&^4Q15L= RU=1WV4
M^KKA^O^H;G|TU^+4N1=7K27<|2|O@B(+5-UCURD7Z.4W|E)^F*EDV@7%<% M#DS+RN|RE?@23H<0 ^\$3O8Q(PT P#@AMO&W6F 62P)
<1|>?>DX<|2WG;S\$S&Q+^H8.\$14Q|4EM>?%\$I6#O_Q|R6G|U7XWME5D|U|)#Y\$|94&= MP*(G^YH4A+DN: TC?T^TGL?
WZV.IY=>#04?|157W\$|_G4&Z/A#1C|NE;=|O|H8&BC.M*?^V5KSU4^C M|_J>3YD|O=>+XNOM&^JH8^E-XW_U)C|UO4N(QV49"?@Z98I4?IR,9\$>2C-^
MW;"1SQ.AKQ|?74|S&&ZGED.= G3J6WG@S.JXUE9?(PMR _G4=|LL;N85E^R|D|FTXIK54CC|H=;STD A|B
M(Y,J|NF@J|L|D^Y^D|IZ<+HY9C7A|H|YET4M|@MU^H75|ITRH&3|?)U/W
M(Y5#07.@F@DR@IGY=Q;RY+O|@/Z|H16B>Y",2IW= 6?|F@/GWO|J^Y&W^? I7|YZZ@ PE@T.S= M3W5);|!|LIU"?|H^O,
|I|Q|F.S>7SP8&YX6^L|_S/Q_|@PU\$(\$4N|2_5^R1 MR^>Y@WZ350|>@Z>YK@MSMWB4*Q|E2|73PI+I02G7ZU9S|6+1%+<=>|A|!%FS#?L|3_|1-AO|LCR|
|_F%O.&|!>|J|I< M>Y87^|_+|T|Z|Q+>_%W^30ZO8H=A"IL#^%CB53H#^_E>3C3=|<#>_D H>Y MME#39;QS|
<03|;>LP514X7ZG6M^Y|P|PCG|VWHI5W5N;7^9PWP5@>7%KX M;.6N|V;SDFJ?W9="V(^Y-M M6@>0(6\$3X)|73RX:"F|30XB|51WOT"-1
WL.ISZ^80WR\$W\$;S<@-PPM;|B M^7^DN90&6NNAI@SWY8\$SP6H,6H_XW^K<=>K->N%Y\$H^U|Q|&L>N>N(6^+>|J|_0B8< MNC^_Y4+>RL>3Z8^"
(T5\$GPI0_Q?_YQI2<\$G>_LB0)U=MK+8^X|?9_WR28 M7L>PQLCAPGOUCCP8V|LL_0P8+CU)-MW|\$_.Q#1-C0@E|>^OBUDFOI7E^A
M=|M|J;?1FE26J(D\$2=U9|3;Q|R^U|U5\$S&AZUT=#\$(<9P@<^OTM9|F|R<=>M?|JPA9Z_7M|N=|8F.T8.E0Q|EH\$#@>S|R9W\$8E|MD
TATN|K|XN=1PZ2%NV M&4|RSRE^4FTQ^*OXSL|L\$=02B>R^X^*|^\$ _B<22K+3SRZMU|I=@>L4GA MW3P^|I|D34L+CC4^*23<=>8J M#>?
|BFO8KD@'7F%|B/+4AXRO1^YHX8|EPROYH(4TL+^"J|U9|I=\$0#YO_M KTZ|5OL&^K^GW 9_|JO|8#8/^HI^W\$+A^%F(|@HX0P2DZ^/^|+0%)B(N
MUSN%G?24125E38_T9(+7D).4^WO/DH(2FPH930+8;1-O^Q3U)?7 M8R|@KPP @SV#;#>|U;4. M|Y^X2DSTC)2|C
U>|9%&3SSHIS\$=BA|SNV&32D;|LO MK9_VRR-D+5|23ZXBO39V1|JEF|OEF|?|PB8&88Q_>8=A^>+T|T M%1-|)2 M(B|5#ASV(42^")K543_0B);*_J M-
Q TXIAN+; YHUV\$<&4NW-8@A|W8I#FY*%QH67&S%;7|M|7B=B<|&@F^ M9"(5-8-*ZD00|XHP14\$=D2T_F4O?G|4K2^&0D\$CC%7|<+
|2\$F@>SREZO\$5 MA\$5^).HKC1%T|S^1+_B^M OR&N|U+M+F3|4|A^N|WNA|A3TD<@>C^#BS5 M87_64|R|LC=2EF;Y Y?7;BM6^"6T1W|
<^>|RVG#>CWH8CZ+C\$>=>|V|M|HG7B^89DU|E|H^|NO-I^X|_T M#2GDH(I^_A|P|L|>9>|J7>6C+T|6MDY=CEEP5\$;")1NJB5|T+*^XW7_T>T
MX8)FJE-AH|K_K|UC9%71#K|S2+^3N?&DFYM| M|9=OZ^UEB2H|I/7_MNL_@>53|7BE|FF%;9_06B76NQY^|ONQ#8QZF5.I@^T=0>)>F&R-
TY;|E|C M^0|4_K_7T|O|L^Y>Y% YC2O.+>5^2W5T^1+R^M8KTYM\$?>: 4* HWOK
M66;2L7VHPKX^1-5N73S|I|NH5,6|@8;OSL1KZ|J^I19%FO=FMN0ZS@7_|JQO| M4YLR^6^%RO^|L|F|U2|I| =>/OKS^&T-W?<BM8U^J_O^XY/G@<|Q|L-
50QO>5G|?>V.ON25N+>(|D|^M>KGXHIQXM^?IEQH^C|IR?|YU+T|^7A^M|MY@>H\$|O;N#PRTMW6_#X_VOY&+<

M>Q>;U^+4GC^J[HR]>J;1O4>Q>M[X29.3]^>-P%W;-K\$/KMESXWN (68I<<>+ MP?A 1;HIO\XU&FT7B7H? [I]=4BX<5K1JUIUO^&16F7UO^>6HOND, 'KP0G6UO>7 M6%K/RJE>NVFE/C<Y8I<?>J(X\I>Z;K,007;#WC%IDZ1B;1.1GO+;9\$*S D0+! ML:5P2A LDJJA\$3*A8I*EU9^Z/02&AF.\$XHO.-MI00.%F0\$=F\$K:T OAZU)ED MZ2^AY1#MM@@@6)CGDQX5:XWSF6 %8I/P;#<7C&PA.G+YM2*W*7GI I M#*#0PS\$73Z133\$B4I.PI3@IR(B\$47J-CZ=H M&4N:OR3?E!U;A1+1N0- (J^N*OG#I\|NW280HF0-VT%9<L.K^#VU3I MA8+WRS)FT^<+3/RM8D5%#NN8S>616\K9+Q59S6.RR-I\@UZVDV^P\$%>?%>1&/OS J^: M\I0 FKL&J(D)<1J8U*ND(DX#F.I.O8LU\|NM?3I?>60RT((C-TQ8/ M4I)%)77EJR+14Z>W82I79.TQ OE T6=I159\$630T.>X-EN-#W 6#N;191X M7S3PIWG?I621%/LR7^PZ6^+X8ER/J4^BFB5^+VU^UGL(6)CAQ#=? 1I/%M%>0\101*SZI601@=7 \N3\I C^ \LOV\I.JR7+H847NTNT(NNE<N0>2^P\ M4^6&0HFN\U6F.I.N<.,\$;&OPOG?I HIK%W58PX1.I.B2I G.T;HSI;BU\JIFA>(6E^Q>)/PDRA4558IOP.%2Q@ YP^W 7.7. 3Y47@V19>6SIG^9<+54@QDI J^ F MU.O. %PWAY.632X8#RK&W4.L\9Z^<B7:BIREK)&G@/ :6N@D4\CY5HIU566 MT<*2>Z.(AD-0.\$;(\.:A2I4DI='01D>Z1:6Z.;\V\KKK%TIGQZ&I2-FKR9 M1K=I.^62H36'^JAA PUW^J11YIUWU7PUS@RG3U=,7N,\ZT @Z9)J4TM*P%=*G>./O\JT^YY?8S=;WSY7<NNT#;ZG6^N^ MAC.I^&OS9I^D720P^E^M81^<0V,JT\$XJ 92P:T&79I3 ,/7;.PNH^62I9@RG::96W%KXP9\N2KHT^Z(L.V.MC^7/2.F 7-3X0G.^C+KAEMI\V>|F+|^1-HN=- W@.79M%HDYJPHS<@=5%0L; AL08UP7^N/Q< M(4F.IG7.Z;D*N=HY+)|@+FW- *@@AXGP8I7WKZXHIUW:IN^O7(HD:BNZ=G8Z.# HHBVB# +@42%J JG A 1*% MNB 3+!\$F-/:C!*>7; RYN4+&KJ1YXZGRO KQ8O ^-M OGKXU.)^742XKVXWIPXC9:K.I= :.-. M&.\CNGSQ? Y/E WOQZLAB258 OG\I^CX%YPI3NSZE.I12ET2Q\I^>6^+5@N M>4H7) L.^6I.40+B.U.B UB >2/OBW\L? KNQV >0?@T.WWQI\UO^9 _AI_ _SP MI [T3DQ>.|S#^Z66%TM.I#?X2T87?I\Z^>9U^8LOI\I\8G.H\|C\I\DO.WV.M.^OWKI/ NOW5V& Z1;LVI? ^GAUVR\RTGGEAW^BA^XG\$|L QMD\KR+723(D M17R1\$X/X_U^ORE\I\O7 T2NV\5I\^ |IG>|Z)XU&>?>. &T.H.M "> TJ\|H3.M^ C0C1O OI=-PM^D12.%F0Q>= (9D?7IEC^Y9#MR2>X2\NEH16I M^ W57D.IRMV^O^< (H^D9. 4S_9S->BIR+ZC0^+8NISHP^/RG3KRX^*+ MCOANE\GX!.RVDE22J(Y4\I?7I^ TMF9IS0.TEC/R2QB48K+ JES^?^0^C/ MV08)DXGK1FG(F:EA@+D^6&I?3THKJ\|U.)\ M2I^<)R.TJW- RQ4(I\^X\I.XI@D.=.1#U^D?I8.2E>#4P\$W9#(R:F9..6 MYT9G96AN&Y+I.P23?Q?I&-SKPEP\$S^Y^OKP^VX7+|(CK.I&5I\|H\@9^8?I?#& M9>"XO(I<I).XO>|I\X^GMV; #4Y228^YX&6.WO\T.PYBSIA.GN\$LB\I\ M7I4.AW.X^G3(\$I?A.A89P=8";G2?^8(S>D\H\I\O59&X.ORPY+B=@(F^A M4E J>|.6I#>R: D\I P O\$K/R\ADUQT 21/E.R(NPBC^K8F&P6AONF6 MQ^6I&UO^*G4I4H^FLX3HFW-35;EJA.+IHD #?G77H?DSJ3MNSYV1#I@R4@ M^8%#^UDD.W+1(%H/DN=1%IFW&C^ 1KMZP&9F5:/^1CON5K NIQD\IMS^G+ M8I\ZLN=)&.;O.XDITNE3&I+8N\7L\K?H.QKPV+0\K?1M_I.F- G6Y2#9=A? \$ M2P-VWYIF?&1DHCFCS^ 5WID?L/8XT;KAM^=N3+Y(D.*<I^CH-?B?^P8-0F M:I.;^DAAC^GDW\$;LG8^???Z \$36FT=,TX4>=>T\ G\I^?F58P9.QI^I\I(#G.M\I&O\I?B<+F)&O>N9Q+M^PK=D5^C ^=QV!^*2^D0C)&G2I^ .G.BNPNY^E M.=I>|.9U^A^QIAC? (DI>)RY>.QOSB#I\Z(?^EUE\^-.L\G<9.9.A#:=E9V^ MM^MM^%/L3I:\$7H:12W3HNTF.I.P?Q\W L^4)H9^5.P>T2E\^1W5Q^*8F9 M0#C5\I)Z(IU Z\$(8Y? 1R^+OO)I6# .0\$BT^*OS?^KBNC1QV7G^WW.Z^ZAA M7BN/W^XSICZ75@<4)4O:SI)\$.R\I 1(C3 G>=A+H^W4=|DM M.WX\SD#1FBB&LMEU+@I=K06K^>K06KDSI>?22&LG3G+;N\I\5Q.CS1GMGD=X(R^W1.E.;-R\YV=68805\MMJEG>#X#A\< Q.+ (W\$F#Y.6+@DR5^>T:2IBI9G.RNOB=UX= 7FP59%ZC MI>.^QISF?XT+I((M0=WTGKS;\$M;CMVF\RBY% 3@#YM62+.)U42WJ\J? 87I MI<3Z^1X6:) 7/T+MCK51^4X8KJG.X^@F16)P\$OQ=AMRCX\I\G1HDM:5^ ML5?J8I2 OP=5MDK\$=N/ #AKU\ZO\T.L4Q\O4<+38.N\I\M^IKHM>.@^Q% MMJ9BP^1^H?CZOT8H0R4HI;O0T^W E^B3;8FG&M2Q^JF?^@4W ^O8ID6X MTZB5U^A#K^U\Y>(& PDJLGF9RRI\DIO-/I C1D6I\$1\$HT^IO?@<%?>R7% C MI2V\$OB>6-M3^RI.W^W(AL6-N.T1L1GHD>MG4\AM^R6L4^C\I^ ^00WBI^A8 M#1H2T8\$ECRHHV?;LK? RID2@<B)S\9S.FC(GI.HWC.M\&ONNM.+1E.\$ M\$D#EZ46< (4GKVC9^0^M^8^A^AYZXQ^5\X.I\$TEFCUQ^K.15N.23+;N:9I 7.;<N9B2S4^\$J7!; MD2N%1S2GIE^I(W>3-7.NL+SQPRI\J^?CQ. HORCK.M2G\I^7P.0 M2W&W1LW.^1.J.MY\IYE\VT^S^EG(BI:=4E-DFZQI\SL:Z.<T- <5.^S9@%TS\MP8+O5\;W+ ML^C@<PZ?^ZC8=KJUA^)\$2IY^9R^86UX.%A+OW^\$A.I+BB>NFRS3KG^#&@')J MZ&-%@>|HC)>* JQ6!@W \WX\4V.L^C^>NSRIP7^D.9%&W-W4\#EW9^\$R88IP^V6.I\#(F# D4\A.M.7B.^#B M>)|WY\I^6CJZY56 U;6P4UB%.6%>0^I&SHL8<I\A)R2 #SN^XH MF&|5A@;Y>1\H14JE)A\I^FWID@2R.LM,^@C0X0C@U67>\$<@<A^X6/R.MH.O6^R6;I\8.M2L5AM.2^8KIWG2FVR.^8U%-@%<% (IW2..S#:=TFR>UDP MIVS3Z1IT!^*U2554<=F4B-6FRFVG=0G3^)(J+^% ^ARNV YW^J4#7\$=0@7 M2KYB&I^50\BD\#>^U15LP4)98A>^%MIEGL0397^&530PLG+e9Y?>CI M.^*A.)#IP2<2F2LB\B0CZ.V2H(J.5^5D/ <BL@!9\$-RC\$DHC(&? TZ(D+RR M\$@D>=&0^ZE1^J?I^I) (ER 06ZC^8#^X^IYM5I<61TK?5\$I\$. Y=U>4 T MP.VR=O58(I:ZNV\I)\$J.HJ3Z;R@ VY+JFN\I00I2+|NY1\HGYA&HSEXYD.U M97MW\|WS:U#<D)I\4I\$+>D)(UEI.Q I^%0\$8+4A)+I\EFQCXF\I\$MX\I\$SMN>^ M^M-5\ /P:;.%E.IY^J9 U4;\$5.2E28I>B#>^*XP^="K-YTSL=995I.#).^\$4_8IY^A8W\$G^*KO?2KH9+I\I^&8=>^D;ENRA@O^M0HC\$ XQ\$M2FE4-X L2^<C^DAP\I=9^N7@S/>^\$F8.^M9E?Q.U\I%) I55#B-I>I>L^#Q@A-U=X&^(BJC<8J\$. "D^>D\I^1NT34UQZ- M#8@46E VCUKYQ? ^QX)O7B/TR=OP@X0 M>U>PM^KL.G.AW.7>; O611%6T057I(V+;R.V3 M.^% I\I^&DSAN@I\B\ISLH9O M3P2L6=I\K/ONQO>ZL\I%#&=#&^*LSYTB+7? C;2PO(I1 _=T.%DZ>OAXME\KP9A18 MOK1>"7B;8M;!="1*6%&XPT^C^C^?+&87XIR\@")J.P?9OW M\4A-.""DMLEZ+^'(HIV6A:CSLI2D:"%U.INOI\>BG \$1\$;Q640 29\QCHT^ MX0K<6MK7P6<5(X>>AA5<4L1?&#F^"L1GDL\YK2\I2RBC=\$.I^>8^V-7G_@O\ MI5N%Y@BDI(8=9M40^JYZOOLNGVBH\%Q^O@I9(&#I\I3^%PSTL@F\I\$?R=I MU\= <=EO(LP\Z<+T^N&=\$1.GGX.OGT^G\I59D9KJ\I71N\J#L85OZ4WKJ\I\$&3 M^<81FY3J\$58 J4A.#A 2Y/=M 40\BP3\IHR#>Z^6)&SPC@S^#K^&F8^83T@Q M^S\GEI\FO?&6.WHK.I="97UY8.X;G\IRF\I N\$;K0<+9 M>Z(I)Q<1+8?K^CVT=B0Q7 I\;\$I\YMFEE\VS9KFE- J^9L\.-7."KDZ+&?J M^> F2J7VU.I>?&PZR? 5%#&V^K^6%PC4+<O.B\I8/7^B75174S?2AZ-S3B MD0G09\IYTB.M TK\FIBK -I4\$B\I)09&\$;[M#&V^40+I0Q6B9;[3< MJ]^>+DU(W3\@-0HSR^JNO.%Q2\$^!1W+XZ(T^ZGI55):Z?^4\I(=FV\$;)YBT^%C MSYH>9=RUS8U\I V\I\ P#IN&N\$O^T8)MIV+O\IR5\;98J4N\O&2%8=GOSLE MT5FP5^9=#>D>T)RO&\I\R^YK>PS&7K39\$H M) (X)^N=KR.OSDK4^Z^H=X\$.5TZ6I\W5.73MATI\4FZD^(\$S+8%6XV@^?P1#? MIM^CM:1GO=L5ROFZ11.I2_I49=ZIE?YJY\I3IG_SSOJ>N4\IWX G^P^L2IUR MOR10^AMPQBG^%60MIJ^L4N9M7M>|HYV>Y; UL.MUV&E^I0Q7\$ASIR\I2Y J.MTS+Z&8F^&6^10:CJ^#6.CJ&9NZEVI.LL0\O05# Q0\I\MI\B\I> <I C>:048 M9?^?7%-^I\A^J0\I\I^=I\Q^P9IEM^EA5V^H.>_U^F.T.G: ML<+YDKG\R\I\@V< 09^B+A=63TE866I+ M^E+K3YVW-B7-ITWJ- DV\$X46093>C M^=4L1O6UE:OZ\I96^6EJXR MVEAIS@^/O\I?6^L\I.R^&.^&6Q15.B-2 T^E-.BW?T@Z_F3&Z1>-I\V^Y?J^T@I.S^J\VU? @I5\I..2IE&T\I24^*H.#B:92%GZY6+2 J.MRB_XC@I^M^1W295VUO.(FD&@Q3:5Z8\I^&I@^9^QK\I^W.I.)W2 M\$9X^G?^621WL0313BF>(>6XYBZFKT- 7YHC^M^V9XX6+|O1GC8LW^O2.3 M.OYX73+QLKRS71O8@SBKFG@I\$S9.S.6\$B4\MSQ9^V@Q^L.#1 <6Q%)_1V\H_\D8FL^S\H M#<I\KY6?4XNE- TS3S\<I\V^42F;K=I2E)WM+V\HEH:WDK>-283XE\EO MH M^I.X.OK(G^OLIN_/DI8^I)O\$ABKQ^?S>P^I^..6J245&7.9\FNC\O8^V>?^ M\$AVL3:-)W&ZPOD@3.C.VI-&6+&9 W6=EWKG3D-@UKY6F.R.M^DI+I\DS6L6.MO\I^6JOMAL4Y^V79Z^I\ZRN\X\MR2OXRW7K-F^U?E=H12;^A%I2;I^K@BS M>F0^I\Q=(2%F)\AD6!5_V68J;0EHV\I4_XTN.HW\$=GV3D1WR^2IFXWG:*(B MV\I^R^MY+V^02Q:2D/Q;9I#)-I8WP\I.*BA9@<H\X+I;2O2VD3!- *Z4\$!5=1PF3 M\$6\I^<@<E\I.C\I^M7\I18U\XW.W@X^K1OCB3\I9R24\$S\I8>^RZ6?IYD MF-0HH9\>K3+>^P\DKU;?;-&_D\KX6008N\XD83K6T<WQ NW>5PN&L- DPT M^T^P7J9\I^N7+>3SV\I^NRLW4\I^<K^YOE4\I^&I^9A&F\I\YHH;1X=UVSXOKQZ82 EQ0- 8TZ@17D)K\$+4Z^U9^G+J9HO:J\JR2V^LP^K+C^0 M3-5HCF=S^F\H\I8IDTK=X\I<<EHN(GE+B^5D-)FFWK>(VQ4IK#?YTTT.&L<51 M\IEQ@VL? A60&+R J.M\I^@7ZM1-BR2I4H5Y^P;NI2J^Q.+=3.ID1Q304H>R^%7Y\)+Y^*#:=Q5QHE/-2A>#(S^2@^7L MV@:VFF:TY>0KM+.\$> X>1^A= \$>4J\PXRLF\SI^<\$0Y5+L;2\$HFP;5YJ M-7-UNBH>LRY^ES^C@7N\$N.XO28_T12NB&34QK^YI^B5A\I);(P:Y+^"IT^MD.W3RUL_59O\ MF Y^? 6Q+&8LCI^:#TCR^QN7^KAIP\I?+ M0\$+T3\D8C3\I^HUAQFGDOV-GPO:SQTD5^>N."G-.CGDLUOR^8RY UNTY^VK M124^@S:C0&I B<;E=:C%AI^L^R@SRL5^@=I_ ODYGLH8N.4=4Y&^GO^/L=I) M2V8BWC7=3T@6\I\GZR+E^=(GRX@F10\I\FK3BUJ L8.I.5&1\$.PXTU\I^*7V M^J\B)4K1X\I^R^@<PCZP^="KGC?W&@/I\XUEUF\I.R/G(IWFP_XIZ+IEP8.X.MZ=B44@HMSN4RH\I^R\I+LIF^W9B:EL0\$.WAE&J\I\PAOR.Z&I)* P\I.T36+F M^7EY^7IQW^\$-UGCP\MGDRE\I.=+I47FN:(W56^PV^I\KFS.E.XE #49SBI^R:#06J MC&U^L\$|B.%WF^M=B3HPI\I^R^T+>3N^B@V^;^\$ C29HL(NL (=XG=ASO^N\I9 M\MC\I)YOR4->R0WU77+KA_V:=%WAK\&5826L;3= (Y\B)9C\I)VD:3\B4DJ MSK;Y\I17>XLWB3\I\USIMT2GT5>B;Y;-I-ER65+I+7C MAYO^F;RY2+93#WE P^P^4^I^M^?Z>T+T0?E\I^ MHYDEOR6:9YE2SC93BN?U5:= M9\$>0+>Z.@9FC\I\I\RTD^."SQ.LIS:~I~N92#4 M>A\I\VOX+RDU0A\IARL>P\MNJA\$TLU.N#<I80>TQ2Q+GA+? :GFD\D(6@<9I MBT>:LL^TL\$Z2_-Y73M^D\$?I\BY3P2GPS.P.HUE\I.W69\I^?Q\M@7B3:-.I.E.^=<5EZVX\IRY\I^C^<^I\I^%CN M\I^_QS&\$73%O 5<+;:SK2.CE^I\UB+ZD9P\$!^X7I.6^E^ZD+I=L\I\K^%+H8< MR5MK-&Y\W^M^M7DK\I^A^@_3QZZAI 4C\I.EHF+WB\$63F(V\U6.D:NI\I^Y@I

RG16U.W1J\A-TJY1@^Y)=1:~C+&I.L 3PN=2TFK.I\I M<\$6>&7.(I\I\$)@F8S^UX.(6@N>P.^4H3-C&P^R(O+V\RP\ 19G\I\I_Z3 M3?."DR= 8!NVE5.D\I+! I^Z32UYQ7Y^PMC?C8W8&SB8@J\H\I\J9I09D^Z M>Z>TLR5GF\I2B8\5R>%)4CM>Z>4/ I5G^EM5KC%5\+J9V64? WIC12+HLB=S MPV240B>BPIG\IDN\I0\ROYMI^QOQYI:UON^HWS&I^A^HVV2&WDGJ%<H7#I.TV M@3600P^).JMA+T\D11S-."QV.S.OB GE(>MCI9XLN1\NH;E&Q<I\>PUB^A7 M Q+8\$S\$H_=\$&Q^C^NXR%-+HOV^%9*L^I."4%&7#^P@C1))DYDK+0V\SDCB^\$%L M^"5KZ2<I520S+8RIZ.C MLP3 6R<I>GP^C99?3^B&CYCHLO_A7 M CAC.Q92D;. MN-NKUKE=1Q\J\I4<+6+U.O\I^>Z\Y\I^&P29IE^@SUBCOWYI<C\$ 5 M<=**7F1C .B^S:390^<#>6I.MQ.^>=I< N82;&POA67&1MEDP^."RV.Z?P#M\I29I5M<I\B=.\$0-6\$S81Y\I\$6JY^5&KHP2A7U<I>J M^8<X:5+R E>KSAS5E^V5P\I6\+UU..JB!=^I^#K\I2\I\DR3\FGR.PF31H\I>EPLS7JS6^:~.F%70:9RZ/M2)N^%:0)TMK I^T-U^_M2BUP42I6.^OO<1^E=EV3+Q##C M.SVLI2X&>Z>7G12^".Y\I2\I^%1%I921W7(I^#W4\I8Q1 N\WYK0H^U\I1^>0 M@?I^>#BT0#<@AY^@SUEY:I6N.6M:DL\I\PU2\I\UDM^"FIC^="U.7:7\$0E.D\6 MNH^OKY^C\TYO\I^D4_I\4A^+GM^5:10550L6I+O.RR\T9I)T5&A&B^CV>7E M.BY\I\MRG^I@HCHL^?@T5I56LSRPI.C1DY23\OB9T2Q8E5T-\$Q6YH2L< M524FA QTL^?)^IYC.CG5N&(TIR: J\IFK%<3\I\U8\$<\$I^+E+*\$.%AAM^I^X MOW^2EUH(V4L\I\I^;I^A;^?1?DD3<% (6I21^B&2TS^ZHW94%(M\I^&0-9 M.KPI\WN5R1-U^F^ V5^ME\$9SDI)2 4^E^#>O98=2828@.^+O\I R^N^OVSW.GAYC\H6>^I\N\I^D\X^4\SI\I^X.EUF? E>Y>B0;CM0T MOKSER<9DJ^<I^J4^>M4G^68F5TZE+O<#EH&I\V;I\I^K^I^I\MMNPNBFA@9\DP6AE^\$HLOJG.4D:OX2 M7Q\I^<I) 4P.=L&3EN^*I BC39K9>2L<I\$IOF&Z\I(=3%)J4R\I^=MHV0 M^GB\9Y5NSE9^_SC.3B.^M#M:IS\I^/I22Z\I.G=TGO^NPL\I2+I)CC^250- MV3UX.FU\I.Z^\$Y.I94S.W\I\XV.I=I=BO?%?ZUKW;U.H>A-FILSDE^DC\IEE MR\$QFRM=&I\I\K(&I&W106I^Z^<#0AC1)5K\I^_Z_O\I\I^N^*4.296:+\$P-&=(M007N^O^BL52Q6FRYWDXQ2P9?V7T5.6&QG37J\I_RN:J5+?MX=8P1^?EV=E MW.OQVC=S^I_7Z9.K^ENI5PME?<6? C\I^C\H>+&R>=>655W.W.E^A699^6A=^M^I\I\Z(O\I\H#>2J=#^%3IXQ3\I\SRIG\I#R)/EY/O.U^&^SVKMS8V=9^TAP#^2(V MY\$W\XD@O^I\I\X09K^1AB9E^"(T7E^B^C^M59&5OH-56G\I^J\KQ^T^HZS^"L\I98BN\I M\K\I^M&\$^_K\I>T8@9H7.%!&G\$T\ZLK QO\I2W)3>LNCMX)<8?? <1^W\$.O26.%H8 MHSM3^Z&^&9I2I2\I63J\I^>F=.@M^Y^A\I^ZVS>"8NI+6^%COKV&M^_M7B^I^X\I^Q=U=O^C\I^GUK!!U\I\GF=\$<R\H\I^D+<:H="^&SO>N <F^K^8S@>I.M.MNND9HA:(T&I\DC3113%O)^V.V.U\I\I2^Q^C^U\I^B\I^TX^LE<3^L^#S\I\I^I^85\$06E\I55_IK50 M\I^&I5GD.^MBF^V<+<KB2I0?OXOPOM^<@#5I3>V\I^Z% M\I>A^F\I(7G_XVW^<^>O7B?W\I^M.W.L.W)7Z=-OX:2002_?KQ\I^VX2?SM+^ M\I^J_3\I_X\I?>JUL.^A^I^2IYYS.RV-VKNCOUV^?>O\I\U>2^EV COY^W.YCG?IQV^SBAS\I^D.2D.E)RNK\I^F M\I\IY^ON7Y>G\I.K^I3_H^<=I=7Y^<^>S^GZ\I^I^=+MUO M3C^>=WSSX4^>I\I2M13S/G?D6 +#I\Y\N2D\I>I?I^= I\I\Z\I^>+I\W\I^Z\Z\I^SCL M>W=U\I\V7RW?U)2M^_ ^3R9SC^NHT(9#I2E^%V^V>OJ\K-K.ENIQ9RM)#:UO^9Y\NHCH MG(O\I\GRJ4L\I^?7ZX>MG^M=W RB@UMET+<I)I\I\NY>S?;I.

MK34 C<~LHCEU EYO. @Y#H70~ JLO23WK=M *@39>IB-LOY~8!OJZ?& IR.XY MB_B/BEW*O<!)^A*%N,5HI!6JLK==P?> P/8>S!OTO?HCC@XUOKI@A@<[G\$W: M'R8ZJ!#2,0?T85~5\$S,R16BEC:C2H:L,D.P,ORKIA9:N/J+HHBQ%J# MLPMM1!B%GOX M:~3R/V<IWDX2RDOJ=J|C\$QFD4L> MIWE ZS' M:AGSRU|G/O=>|V\$% \Y'/(+>XB;(BG1DFW'VO#U.FR(O%1@ MR;XK;\$6*5\$K)X#*K6S@|WN\$|2+2 414G_Y |JA 9NQ^OIZ++> O*YM:/THI;NM ME|!O3V\$;B3|HBT^U^5|=H2=JFSTB>QGM';LP@%+P +YM5K9Q!|&%> MZT&&L6T!X|J3K_T |P.R|Z\$35;E40Z'+>#6&@C|VED&#!'TVOLKILGO MMQP_U:XU|J|U73K1W^U^3!%&%/55:WZ/N%>XV|=0@VY+M5U>O6N BEAZZ!/O MYDFG4==|<~**U JA:7ZT;CB:B%MK=J.O|WL&KUL&P:3T|Z5N*F@F|J|V7(KKW MQ1B; J/S! MJ:~U|@EK_8JS>|9G_9@E.1QNJP|JP>5|2AG=)QO\$8W.5QJB M'84JWOKQYPM*R"5\$4ARB|J|EN0L:(1GY'&?CJ3R^>93RL9BW-^RG|<_PE"M@R M? \$>NT+53P\$8BQ|Z<O-8AY:~4;|V?~VQ=O=(Z(U%060|LVL@8RE)O>IEANT M|3VH|@\$YH_5RT02JTK_D? |" #47+>NUR2+Z<"8ISV6;LDBHGQ6T"=&@U:" M<3<|>=>C9PSV&^30S*2192ES-JUYH MD|Y\$O%2XS&*Y8YH!/U#Z6K,TR&+N M/G|7- /+Z;X7^M|V19H-O|>+XUO#|U|H=0>M5ETSM@3&6K1=QSEZT_MLN_-|C|.#NGO.X\$S:V.SK+?BLSIR-0%>6> \$NV'EKXM%\$H16CR\$>?VDKA7#BC#L ML_IL#(HIV0%-VL/PN:M>?>2SFU40PT9%UMX7|O|J#51PQV+9 |P8-1XDIS MT1\$1O/71R4U@%*^8|J99TU%VOR1+DP)K2.T#P769|P&&2+L|J-YI? \$C|Y"+K6|5|5I M%?>QO@X_:4=H|LQZ8ZC5W08B=8C"=EQ&T;O?83H;D@KK%L4CRQ|U_ *D|S2#=#HXZF5#51| W8_4A1.&@CP 144; (|VEGU|C>DK2A ML#44A(6;1M%*%#PA0BXM|D-D_)#23@F30*F|C M(41?YA\$M (J+G|3L1R=1LLC|IKPE/7|(*_YY5OIX|B(VQ'P,#D?I)J%QZP\$A M> <1\$KWKJ|(|LPE|:"|J#Z'&81M"1_72.(8SCN&8SAC:& X.WXVX LP6+>Y Y'M'F?2|E+5\$*B|7%IC1QE6|+LQ?>@P8P|>&+W15)=519;\$|IC=V:Y:MA*)* MEAC|J:C:X2,EHGER(%ZX|O+~.5W7-/TIA|8P7CUG"EZV) 2G7GKA_IGY< M? @*A;65E&D^L#)JZD_TFDLB#58)+X0|S|MOJORX|5BYP%SYCR/6=X#)D|C:- MMC7Y4U\$O6:|@PXJ7\$VMA "BO2_/F\$V.YX3&|&C.;2C5IPW.!(+V)QW|T MN:~|LH95:-ETVY|LBZH&P,|C#&H&E?216\$5ARK%T|+N|J-X114^YD|CNH|8|TW^ MSGSPB&XTZGL\$? VKS@HEA:|=O@|X|Y3'O_P|3|JGHRU5_D&^I&_T|O:C MEFT:\$ 2HI:\$<_G=+L3NQE#4-O M".VN5!F586BU6NGJORT(\$1E7|JO#Q7AO^<|KV@FX'9@DIPZE&V9",AZ@ MQ:=\$#UB0H\$+3;:UO6> M"GPXE<>_ 100SGYOHK/\$S"1IE)?! FO_27D.6K0B^X+_'T4?>?PAIQ@ |%:8& M41KRW|B) L8A OV6%:70>+0\$S,3-A1P&EIFYFB-O0|5'1\$|3YKT IG|QP2|X_!9BL8:NANXZ='T")I|QP(E<_TOF MD==(|4>J).(OK|U'Q\$S%0M%BL=B7N+9*TS|S|7V.) *PUN.XN: |Z\$ /NH20T& M)|I2_O_+G|72#MY%2_8^\$2WT>496\$?_UXH|J2#9YFD#YV(" OXV2C7N:X7&M M!|O:G.2&1FN?|JB+B\$Z3!:&GE^A^V>|!M=-.RL(4Z2DR"4XOBXS0 MA%\$ WT_5E2N_M'6410T6E79KIG&I7@-2|LDC4R(2D&(|J"VBB'4F4D>3Y3%>^ M<|_Z'#%&KZ/032G- |S6PQU|(M=%M+2E|0XB|Y)EO,=')^A|DN|>)'SY,?^~^ME)+|<^35Z13MMJG2E+86L|)!#H:=[K@.;>7X7GH9.(3K>UT 2.C\$GH7P!5* MD\$&V=O4)_"N3SLU>T|I7?20/ES2T8?9'857HE3|MDKE+|RI|P>|<5B^K<~.3 M;2_1E@8:C'W24" ES:SN6*!(>_8_7=5R&";_Z_GU_1^!:(L_/^/7 M\$2WT52Y01UK|I|Z:(MA)W3)OFAK\$SZ|DE)|@15|F_RHCGM|<_LY?X=|R+~_ MY*(EJ-9&B?|0U|"Z41W- FU@|P" WWW_OXZU(U+V+\$WJE'9+!>?7:6"%4J|(<5|?B4\$+Z-AH)N|JE9\$@'9V_O|XVD?Y8/KLY2V<~)C M03STAD8K0L- _USV|J2\$66R_N_E,R/\$S&WPGDPHU)|LEI|MU9T2U|H+U9: MVN;ACRRP0\$?U"C|JU@55O|<5+K4+)>8" ^GY|9%=%<_# Z8=S51_,7.VMPG'EC'IGAMBRE;K|JWE8_8%8R|P4)R|(F:\$C%82|SL M)|@FUW\$U=29|/"@C"8_H/6KGRRR00/L6^~%Q MOYT>5\$HF+>216BG|9U4387" D@(|G|'NR0&(M3,1HC43B"X" C*3V?2AW(C_X M6PO|1?_ %4@_Y>WZZNWG|!>|:"SE+MNI_VIH(C59V%L? Q+>L(VK|9C@ MJ60#NL< \$!)-1_8E924|A12CD>5\$* _?06D,|21CMZ^O6|_ %PJABA/OZ(" |MWG|J52Q0^RAUDPXX :O>2|B2EPG3L#_6L"EFKXI"&= _OU/AZP2<%9C2;| M^F6Z!_!OIZ5!TR|O|:MMZY_4;4Z*/S! MJ:~U|@EK_81327;9KB)M2XMTP MCOPXCNC&DH:7+|8T|'A9:OLAY:@00#X\$S.Z\$#="4EX2|<@T&|Z>_& M^C|Y|T^*P1V@I64Z6E|B|AQ?C?O|S'2_9CAS2+Q-ZK|U-3|J6L1C&_9G MET5Q" M_6+>=>F=2>?5;W|W&O<3@|J|Z346B=O-J|Z3=4&F2\$=Z|OZ9I_M-1JGL_5^T?>VQXW%M_TEXIBH;PU_#|3.0|Z|:(31- 1;:6+83;G2X@77|/"N" DOBAN870| M8_*\$ROSFSM,J*3%*"J4IAFFV^3\$53_-AJ-R^E(9C"K%5E*C|=C: 9-7F'08 M^QK?I?=_ L_T|BSXZH<= >W- +/+>1L_>D23)4POGA"ICO?1%4)|J|C<~&ZW MK8+N"GFA C^@/H;LF&&_!|O7R2BF.@X|JXQA_ MW:347: ?9|Q.Y14F#G?&L=A|&Q^<^8LBK0I> M8^3Z3W%WG3XN%XTZ|B|L#_MMQ%1HSD2XZ|8"D^X'ZG.T4Y?^.(6|K#LPFDSK4L?>LIP5"~WY8UI@|J^ MWMISVS0BV^N:X\$N6& 7XAA*~&...94BW>|N(-|Q%|A_ L6&@-4D2BE |F M^~42IDQ\$S_~%@|+2BN0-GQ-J|PPX;-^NW(SF5MD9J|EG;XN42.WM.8VD MJ:=2|RU4|Q^B^CD588|>=2(IU(RD@Y_8**631-DSAA=|C=(O|OY")<|J#R M_X2QE&9|70'MC=?24|QHF3LY2|!>=Z%6J3'<>?70L4J3AZT_UPY4\$CU,R M(S#2(S 'I00#?)"FWNB\$TRY?2%6H?G|HM&3D|J8C*7HRC=O^/D5_#>+(-JO_M|A7A\$Z8G1=HIU5!G^LE=\$C=P4H"OE)|JT|!>W|<14YX:8.GW|+? <8ID@E|FESY'<-F\$ _#ET|>_~1#T|MG MJ|ZRD|NBBGT|Q@BD8XW7L<_K6_~E'&_!T:C\$962&3 @6VH22P|HK|G|X@ MF+4Y|6OU8H:*Y|7'GXHV? -2PN"&3TUP%NTZ|A4VW: 5:3%W4O:XFKUSS#N MD_I5:~%ZT8G)^~^ODPAL=(S X5_9!%9B|BBV0#5:#>VINZ|SZ&_1#R\$5":VOP7CT+GE MADQ8?|TQ")|TAIRVB:@A(\$7_7G;2B04^^(K9&*4P@SBS M#\$ HIOV4\$ NF^IK|FT%#B|_O MD4_Q=LTLT^KZL|L3LE8| IQ0+UT@+W.@|I3%_W4GPIPG_?>0|+1?T M\$3_7CH_7E!+>H=OQ3\$|WYU>L.G9|IO_8<%1F6.ZHG@:X\$+1%MI#(=- MH)&2I4"8LH7")81"@60;%KY(=B|"@A""DP8%~OK:=EMA*B-5?CW8.G|NA<4.ICWO14L|J.K@JT" M WQ1T |I(1GW';J6P|4_6378<=2AB,=)D|=D|P^@XZD;+>+2~>D0>CA** C|MS&U&Q>_BI9>=?D<(|WV|_YD^|M |L_7TQB0V M!2 3DQ5:CNR%XL|U3AO^IUU7.OLD^J|+!%&61*|N MW\$AY46M|D@N9K60\$60:6%63&7\$&IDQOQ?>8HSP'B;Y"~0\$?%_N7MM/C% M7EX\$- :@9EZ*OS8|I6K9I>M M^|CW?=(N|IR (!:N"NE8SU21J|_J;SBLYW2@Y*PH\$|:~8 ME>IL360*%F4'7@FBZ+T|":NP@IO.8/W6->|AZE9?WP_6F|T? WTOYC?7^S M|(5|J#P#&:81%AK>|PU|=|JEAFLW,GK%21#|X|:6M#Q70L6|J|L"A4CYKU MZG0H.6D9<|_@+O90_="&J|P?>=FW*CR! |/GP<6"E_>+P2S|_M_1M+BZS:>2N^A">NC;SK0&NNV+^SP+^SB_Z#T?ZSS0\$&FX MI?&_&%:XY=(<ZOD G-GO=?- J&2'Q|IPE%&_VT+#+:AP4O:J_?M(C-^HA3%+@&A06WEC9JSO# MB+7|O4T_7Z&Q3>NGXQP6'R@AX=PG@7>Z|_/DE"O+5S;WP|<|=9/OVG"5QO2 M'PE|(%3_8*|JG47;HP|NXY?"|X>FSO=FS2-JTE3_<5;|P"8LDBHOX7D> M|69Z0.SJ'55:CZJ*6#^28H9N2K/L"HWW>|CIC-64'4F)|J|&X&NZ,00XE0C M"E.WFZCAVU6\$+>|<3;:7R5;+~ZFHA.TR1.G~SPX<>|2%EAE(IUO|3R7 T MS\$9E1%_#MYS);M6S|JN|R5K;NF|TD<=|_V,7JTQW&~>?IDBV| LTD@_1 MJB502^>E36.7\$*!^|O)=|ZRPV\$WQJW\$QK&98C)6S|G|MG MKW2.C= M_|K8NH\$LG1G: BZ.O-F\$ D5\$1_3|LFLA|S|5|GL6|!=*HJ|(- |#|J|R MCT'8|F|E|N~%\$S0A=XKPSB1>N|>VQVA^S1*^>Y>PN? M-W;L|F|E|1^4&QV^AWW|KYW|_J_H684YT).ZC^H2E M#-NB*V#Q2YK; Y2S3H^&#?:"FZES_""5ENT.3A@9'C|9|E|A#|N0""7X MTT^|AZW?7+Y^@W>|K|9GE&|E>=?=R|!2K(G2.A)CV&KZ&9BA0^*26CB3)E M:K? P.%SS^A(EW&V|W>XGRQF3ZY).|V7|O(TBE%)QPO\$Q?>15% K|E=8:PS 1 M&B>XBY=M0UB78C## #F403 X8^~8"8W|?FZ ME#@QM+UL)342M|T=KE)&T|/#!O:3X.82|C_5|L.K\$7.*K^<|/KPLX8S%W MS\$MM ^AL|)"2|W25FS.GW@A\$ _PK">".149A9\$4"E1/H8#X:7FBDE- PH9R4\$K MI=4^Y4NS3"ZB<^+S^AQ|IH^H^|A|X9LQ>O?6ZJ|J#DZ8; ^7S.SAQ|OC|O8 M,8R5\$#==|A2442K3"&713>OAJE7W%60*8LWTWY|N0J#2%WMA^Z91R6H|VR M1+>W|EOB1@|AKV;)|S^+L?G2_.53?4F#NC"Q7JSS4I^LI+ (.U@X1S|I"DO|6# M*M|UG|6G|J?|J@&|&|>O:F6>'?0EOH|F=W;|7X;+^4 O:(AC%"Q_J

1>0.8&S6XD7G% S(E&5>ADOX5E|JBY'Y3\$W?K-L MJ@NPN?B:C(X,X-I?26IG-(5:10S\$KWVG2|Z^U|UK|IT\$75BE\$P!|:F_F*1L69 MN2W'H7&8+9P.|^QAV'QF\$|><|K:%Q)|N%(J"V=-@ICG@=U<.2M4KH(.6_M#|H^-ZE:|K|K|K|JWV V:VC62@|ITU0ENAOEUU%~\$?;

UDAJI M<|H.GT* GVXR.XW"A#INPH|G%O52LIZH\$U%>9NEU00360@QK+QZ2+B|+7B37Z|2L^L>TM;"\$E1^E=- |Q:1V/ MA#DVL|=HMH2CV DJ=L^Y|D.2\$|+FA6L|Y|Y&|AJ=K@V6M5|JR(FZ@ M:XP2D2VSLCLD9=L|J|RTMM77O|PK2D|O@23|=X1O?:A\$891Y20+>6|DQ/ M0/*% |D\$D>XR!|@X Q9NV8X/^3>9BU'RA7|UXO|9|AB=0/W)>|? EG-.3! M^C8=-Y5;XD%=21T=8!3E4-SK2H?VK1WD&R- NV?._EYE_OI P K^T.Z MMT5;N|J|V&?>|:COA|F=-FS:D|14X?QY(F4KV?9|TX?)J V_ (#X1B_WA| MPE#T3|:FW0K2(2NB5_#*4) >Z=L|C^<1?%>|J|<LR9-UK%|3*D(R_<5R M_&%&_Y;\$#)O.|E^D24D|V5TNU RP=Q0.D79625B.K7|I6|45>M|25| MSQ_KNN9|R%MV%|J&KX3W%B#>9\$VH|T|J55OZ=BI!..?_74Y(O'5'988)6V|I-M T#T#%G#?>.23R&V|4> >1" M/55L&QX^Y-M0MXM#@>QWT91@|=0^|P2ZQYR+>_@|JQ|X7^~|K|N|U|6Z49 MO'N|N|26T|/L%_Y)UKR;; (@M&|I)GWKEZ_|J|&~&U~#~|T85>|E+!^O^OMP MNM|ISGWV\$E8%7SY60N+U<3=OVMT^Q|H|4|M_7C%F0;N|K;2LF8_XY&K4T(F)|K/ MB+L(HR|ZV.C3AJ%Y|L\$4+9LR(GO_V@NJ'1 W66'YGW0WTFG-S'V046.O|F MR(5A0CN|AL<^\$WX|>Z.O"U5X=W88\$)E|JBV3'N)M|MC55 2RUW\$4WCW;JC MO.B|J%.UO*%G|41H'FV+?^Z\$3NNPCW_V98H4Q-KF8;BM*GD:4DFRD'Y|Y|A|C"NJ=6SL1P+N|B+N20|A2Q=C=W1 B| M=U=? (KL^PT|=7?>M-Q6.D+ARP| |#@:I.Q62|I(U=CUK_LV_@R0T|1(6HO/O.M1#6*TH.KWIGW_X8@>BINO(SDE<_).7/2@ MX2*(V|QRH#A|@+/\$S V0:C4F UW4\$QZ'Y_4|:~5HMO&"D/G4J6'\$#(IFS MF2W-T&A:VE; %&|A9=ZF1AVY;>MGPXQ>4XT|H_Y|'2NI_-^BA?3ZP=(|# M##D|XSC,0"8-Q*\$|>V+U<1L5^|TA=ZRG'5|2X+0H%|+D)2S69L|5;B M&VQ|B0W_Z|34(V#1N ?)"LVRT>*[AC4.3SBPZ8>SD-Z>33?6 (|@|<~*V MFWEK6D =2*4AF:XR13L&W/ZBBR2F;)|A)\$-N"\$42>B"826C6J37(6 M7M0G|>245X_1A=3M/FM9IXR5:Q&R5K;XRK"@3|BCH;HGA|2INH\$3|KL6M M_&_>Y8TM|0R%B66SC|ND_V+U|G=DV0V\$79 M32MK^%0C='OMENB<=|TW|J|L_34C6&&|9 M"E0M'M>KO 1H@X@SYJEV+G\$VEEGR|F09|>#M#27\$'8=UA"9#~38XZ29'F(S MGQ9"@|&#&O|J|L#;|NOB21>)RT9M2*&J:DI%FCMXX|P:H_#DXX|HFA:OY2 ME1YRXH2(O|WFR_N%|O_7|O2P#@_K8|F6?Z%4+Y+H>O>(|!4 M|Q=6|T+3|P.C0P.3.P7VOA8BY&6SL?6MSY+QZ.=|P6NSZV4725Y177 M6#O)K=X%KHT20(VF|<5R|E%\$5B)-H<M_N1_RD^XU|2O P^A">~?FS?J27ASZ.DD?W|P| M_M/C|3?2?A9_3+ |U_P+SK?W|W|OCY|'|&= +7^M.L9V(|CU|X_+BSO_":Z|M_3#_R;C^CYCT&@| M_3#P&PSD0|V7W@/_H/X"|_WYSU_2N.Q<=|I.8TGGD? QUP5O|S|S1|C|J|& M@EID;|U|GAGR|09B5^>(| U_A|I6"WU@A|FZZ|O|A)CT4&STBJ?*1 D3W(O*GDRO+1_1P|120OH*ZP28;S_X>ZS MO|SC28|/OP\$>&?G-V2BOW3Q7:1=RG|I7|%Q_Q N/SBC9|@L;|JZ_VLLT M60W|U<3=SRWKSEU|GX3Q&"D'W|Re>3|LY2.U8:>641R|) |R&PCR\$S VUK|@ 7 M>|N|AM0&CYIA:L6 SZ>V2'6|J;W26 ->Q:6=WX+ME (Y|C|_|W|W8\$9DK; M&IF2'C|H>O\$Z|7FPHZ4|L|=CDRZ'=|&QQ\$Z2Z7Z=WGB |JX"14WO|CX<|I|O M"<2 BP=GGY/0+(\$Y\$P_ |T7|5T_|)-08.U46|VO*VH2\$S;):G K0G@Q| MK0CSK7%A20P<2+WT1 JXZSU^1_?Z|NWA|_~9UM(F300)GV=86\$N|U|J M#-|#=;P"9|HIKDZ|5EZ^+B|L>+CH? (K_!|J0\$ODT#M1)?A#XMGJ?A0Y%|Q\$S>0+6'C:2VX1_971_~:NMXB#R<^=07#& M=;*38")DNSU_!AO_%PTR|ROK& MF7&G0G|^~^RJEAX-0AR35UP"6G|N|_7#YITQ8|@ (U-W|V7GL)RMX@21M*IEH M07CSU@="T2"~\$|S0Q|X|Y4HE&S?_#PP|CYARL;|J=>Z39|J8SA-Q\$S|J|P3A MNB:-40P\$?>3?W7L0_#M|R5_028.P|M+M_~J?>9U&D6FUSD\$-6|/"N:3|>GN MW'|4|T_|(*O@>1^K|/OYK|A:8 |J=BW_K/P|OAS=->UB? \$L|>KK9X>HD M/3"UC18;+XRP-^J_4Y6J|R1N7ZZ.O"ST|IOH\$M#M6|""* YLU9|+QR?3=|G MLIG_|M+ F4Y)|@DV*H9<=1HXBA2&#%| (S_>3P^T^~>~0*0\$P7 M.OYTO|&A|E^@>O|>P:9Q82C34H?|@C|S=|X7|Q\$>ASH>8^B#_|JN:<0 M%B; "QR8FG5|5F4-LON|5E;I6<:AU\$J? LRGC|BP3+M|J"(6)AP-B7|J#3? M|@80_K-D> ?X.R N_01+AIT;AOIV=-ODH_#C;?LA@;~0*1 M%L_3\$ED1-8ESZ_11H(\$#^JG'D>O58|J|<:1=O&|P|J- T+T_W@<G<F+D0 M3Q@:V8@G SE9|0RKH; 73P|C|>231R*SXGD6QLA*<2">+,"\$S4|&#& 8=MAXT78;+A.R.R- 1P&^~^+~.C^ MH07E#;=T;TRA5X&3R#|J^F+Q4|>>~\$SGO#;X"VR3TZ2^B;?C6QC/P\$41# M6|7N"@7;+2QGP8Z5|&##;? |X\$^~|C&3|)DB6@~+HJR(S|C|&|_U&B|O|C:3B+~>50|O> M^FU?^Y|1,8FUERG CUXEG:6UY4NGR MO0-RS- NS9C|R;3S0C~#?RXL48N|GR|HOR;Y:C(PAAFV&57SO.OUV,M)D6|J\$QAECHC.L\$|Y|"AY(|WB#X|@|DG687" 9/OQ%DLW@B.N=^C"Y# MWXMST P&U6BVF+I(|Q_DBR=%7\$P&_1B&4R_!@ZV@|GSOT3"Q_5C4TORD|!#< MMDA &SKT 7V>I4J9%7G0HJ+V>6(>R1VBDW7G)_N_7|>0+

..OEESX'K9PVO+GF""AJXI M,:5YK\$W#W,YV:@| S8@9I!\$+Z,*3\$QZ?5MD3H0^B3, ("C)BLG,\$1\$DX|!P
MHGT@0(KCQOW0\$(,B,S)5)'C7CXWGKULW3%)@NGF\$F32G MABBT19%5-:IFL@#068&|A(M\$5DN:EAZS,*JU(VXY"Q:|R'8,JQ-V0S@':DX|R
MEAG9|R9\$1U+FY8@Z@=J^@A:E'-\$S D6N\+1SBBZ17)^+^PXT# ,:E(<^)^MO:O#=#C\ M&H9GV?
(1(BSMZMQY#90#YK)4@,JVTYDZ,\$>4D|VMZCX1/8^S(0|9I\$5AAQ M*P\$SCZ5Q?|Q|7NF)\$S\$K<|:~*8';H8:NR<*=W|S!(@3EHAB ""\$9C0:K| = M#)T?
FC#E1*|JYTWZL|B|7I6KHFN<+ MZ2=5J@T4%|8W|Q>NW4U' ,&GBPJB|M4|(BH1V8;#^~*K|=O(I+K4D' F0N> MZSCQ|O|)->W>O+VP\$NF/Z(|
|DHI^JT*V*GR|R| &=H.LNPP#GRONOP?<= MKTRGL=)Z'J)"G:G:L"718?NGB#,WZ=J<.:!U/|B<|G: &|%81A%+:(ROUB0N:8^V8T&T;\$D) A|R/|&A; P.
M92=1'P..|/(0?E3&""^|QJ"Q-GD6,B2&24NAM|P'ZY=TG\$!FV ULV%>*VQ MFD1JL2 EIGODTSDND+<=(+TS8\$S"NH4^##?XZ)CJ0&=|L'D, ^!SWT J?
+^I M|E^16U# L,;|)8ZOCYP?EZ8TTS,.*%#UAIAC#,E|J_ L,V^V^IYAN00D9| MU'SN,%HL|U0^4~*KN/N%#H2<~*NR|G5C.
H.;&ZIE7F(0<55;|YVY=LEG2M# M# N+Y,W_ Y^REP8F73Q@T'YAW;LIW= FGIO2IW>AH|AURY^ ^ L\$D/(9Z|Y MS5ETO<2IF3#.B(N|J|^CEW|&4C,?O
P&U6O51(?-2&2L>G+XD Y*M+4 D,1)%9TF* VAX1TR\$1,5D &E6(L,DN-|64|U.Y^KQ:2"U^LY, WMJ8,) M#2)U5:P>8#K?+5?
BYZR7ALE5|.H8D3^VGV7V.F|T# VFY:|RW5E;|=UB+Y M+M#;:1XB-31@L-C#U'N'TS|,(W>+B;=M?;PGJ'BZSMC2E:V>[5D-.094 M@P
91;J1\$?>|UTL(|3|>U|KBGI K(T_12^CAV|,E.99,="TU^2ZNW M^A W=ES=QO,S)"9V9> MP/PPJ|#=U|=\$^*3V2U=+(2%CW.WJ|+##>^%ZK-
"PK:C31=A.R|I2M2;8H M|J)*~*#^G),1_0'.3VZD0HOB|U5P_9 U=;1 M?=\$5"6;V"V|Q":|H2Q|H#=>FF OD:69X99'R|B<+9\$E)Q5X1K"AB-A560^ M&0?:
^?C)=3E.S>|J8 Z1M1 BDH1=.%6F@B87|=+=^G'5G0^4,|0=Z_ ^R^&4_ 8F\$CH9YD1.C|QJZ3W\$2 M0|<;
|+2(=Q|L,B|A|6OW?|62&:FAM%AL05199/6I5',MF9(T0\$ZYBS=J' MJTT^V\$29~\$6G&=9@9-.ZX#41B %,14BL =<@|#|)H1KG-7/&3PMP+>+J9
M|F#="|9JRV8.\$CP+L?XV50M6;J36R\^UX7/ MB_4B|F^X|+YT(GPZB|F~^/BS2=|G1BPS#L%904@ATL>~*%|=|O@D3'?ZVR M+V)07RY8Z|
_YRQ|J.TT3QD54U&DBQA.AQ0"?|E|E2>*GV:G0:(ZC"W=W06 M>W*DL+PVEFVCLB A C&|I@ (3MT|I/@>Z7LZ=6CJ#93K
MC303SC2SH3K\$X;G0(-8-)?+S1#K\$B1:1YFA;G.O,(?2+E|085159X|*41F6 M8W|9|~^,0YR&=<P3A M_1<+~*#1_@P(M33)FL(7M5ER+@5)0'2MKI
|JGAEE-4P9/4B3C+6H+3^K-W@-CW3;(1&?)@ MK^G7:FUE,-83FO&(O6?M('GTA-"G'#@.CCHN,GQOP= 7|B.G#|1#=#-N1
M%)%"M7)Y6(7LRDQ7>U>Z>5|6Z|R/U#K|'Q\$GJ4901HKHB8V>RP|M?|MQM:) M/^IDTE18N/X8/AP AOG3<9'ERQ|F=
<X:727%\$C;5I,(4MQ^KDN(AZ %\$2F M%M+M5(^|M5Z237KV|D8OGY"|WV|-J0+V|5P+&M/M1 M*/4W,|U(M.G:OC&90#X|(S|21)%7|I|X?
JYPO@|QC1|J|^F.YAN0A|F+1" & M-L,OE(L=+4+&#UFE^68|7QEUF#FT4+|WP"TW#CY>+&M|;W(=A.2\$5!S"2C<^@FTVSB
P0L|8B=9E+^U@+VYB4P8RE|DCS<^0 *IG6-M08A:7P\$#@|<7U"A9""^E^L> MKM9)ZJ5;'19893HL5MC|O|CS- PH|,<.>KPK0?G*./((\$<7ZK9HD MRG0-
'A<^|J,WZMEC|S6=,(K"M\$ IOT1\$15"52,D6%05"A^|J|M<H6^2 1ZZ= MZ4X|TP3"-E^+ C6-1<~*7|<>NFSJ "G>+~* 'GOY<^|P"-9>2AL |X'#O:~ _M/@
9|1<|J|J|U#1 UG_9|17EU#2?P|PMU?|U49#@|J|_ O<.,^|PZ:7Y6SA+0. M @F2;|7.SC|3LD2Y4ROW|8 |J|@L3/2O_0_/K/8"7F6D-
HBVNL^&IRV|9E6W_2E\$2V3W"?)9|O|,YTAD\$0NKKGR MZ+^NNCT-*W#6:B.;?@XY@|E@VNY2UA4LK*1T|&\$BSN_\$18&;|1N|KL&/7FQ9|ZU0G
PMYN0YO#|F A MH|C+6|P6N6UU|DN'|&R7#K9|J#N<?>O|H-FL W'LVB4(L#04D|F^N-|W| ML-HN MSW* R9P"OW|NN#/?2|GK^KXXW|X|X?#
|_L|N^2_7:OCU?VO#(N=|O)Q:25GK<6+Q#F9|D|KMD|""Y|I|Q<5\$2H=Z?;AF#Q|W2B M#:OPM@OP85G8;2:P/|J\$3 V5*PS|2W3V56>SCX;LT" F
MX|J3K;5UHH HX1S:N\$|OY>SGP3F2B2 LNYUMKT%8BN.K"|;KZZNA1E\$&./&&R=(#J-DC9-<2A#&3PD1+ 26A@ =?E,Y M,H:|O 3-*?26A@03N|?T-
+^Y(C *))*%PZ:6 P|(&I8G 2#K|2)<5^@Y M(EY4UJ=250-<.>S>+&=);#A#&06/74|J'L9(WT5H_D6P"N,OZSK|HCFI^T' M=6^VR*^|JPA-1Q|!|SKC'-
^WU:C#\$P9>FA;4U=7=?|UJ95=<~";R|J7AN M.KX,8,41.CINOTDI^VG7|J|+D^L+MT>E-&|G5D|D#&|DQ3MUTHG=|A=0 M#
L9%#XOURXN"; Q ?ES|YT+>2K'.FR<|N|J|+A+^F%L5:ZB*G#AR,M"W|#@ ML&^8-K&86'|3F6M&)6Z1_D#^C*8|.- DH1<|+0@3SM,%0D46U*
MN'@%N"CHN?2W9?ZGCFYPWZ(Q3D2>|J_8,%XHKW~*~*1|Q>P|64|QX|Q|
M=N#Y54*HMS;J,8?)ZCGB&HH_0X_3?~K=4=N;^N' R451<K=+T9=MDRKUT?7 M_-3(D73(4LB3&A^PA5|)G|Q'&\$A|J_@NI/" MB^W+M|5:A<*|&EO0Y-,+ "
(;N\$;?/(R|I0IY\$X| MS|D,RQ|6W.7@:@@-.@D@7.%R>Z7XS4|J9'C;D|A|4FC|NA?|+P7U@V;W'2>2 MDJ|C7|PSI&|US_..X|_-
\$M+J^7A3DLR|I3E&ZAGSS&9)8IQ'5R=&U|4=>D?D MXXCZ9DU@7U:2N305;XMB-'J; G6_ ^GOO#EOJ,%3N32|2)TE=5HH.OY.'W M1H*P9Y(8P%9Q-
Q|S)2O'.NL09D8&Z|9A|B@XMF M#|IEXWH7|#+>QO U=0; M2?<:CZG-B;B\$K=W2@1EZ6AQ*L=A|V7'-|FI
MM*N)BNR3DQP%|U+U,Q%|66|F|W|B|;..|L|G|,2,Y\$BK2NF-H5|J|U+C+WZN M29-~&.#@:L|'3'G<9T
Q,'E/OF4|=1U|U%PX(E0QY(GXMA_N8R2YPO@H6|U MP_3J';YW:KOK2T0GC4F/8+1A+9UW+OQ(%2MA!|2-.&1VW?)YX%?1(4K:=3
M3;\$%OVF&A1VUZ051"90#T6'YNI"53Q9.6&2F+|1.FE\$CN'Z|)AHOX^#N| MZ.SV0|(&G22|2M"1|J6D^OX|(DGV C2(-MV-|,X^D'(9QCOZ.S<,>*WQ;H59
M@|'=NEB.FC*\$NUYKI=G8>PA68|?<64;T_ X\$)23TG<|A^CZLS4SV|A|+J
MXT&M,\$\$SM;:FCYVK|K.R|L7V\$4:37RX|>FG|Q<@D2P| ^E@O1X=FO3^@G MB_ ;J1=5FM'PO5.A|7MW(WW|);B:UO\$A|JEA*2|P|JC6;
MN|P'NS&COP|>3A(E|A\$ZP|J6(DZ3Y16|IG/T_V:7\$>|B P|<=<9^B Q=LA0 M.W\$6/;VNC)NKV?G MV^?7C:B>=>RG\$ \$Y@?2_+;|4F9PPD3-6
;#IHU|>.>E&6NYOTCMSP\$M DC MC^X+2A+0K72E1'E-P|,9>|28|L1MOBU|P.A2.77@N/%#6|KY9.OPI|>
MYKR0FB0S07+&6ON(HGR|TO|G,1';CV'^=(RN45:V5R<1-#GX-"%&+(M|;67X02S~BNR7.Q5 Z3Q:0*3 L87#1'R2(KG'IO%H%M_YF0T.JH..@.#4X
MC/G%4|2UAYAOE:WT'R3L|_+WF9#80=6L2M@L1.YT.SP2ND+4H RPN0L\$H&<@ M|7SL>#T4B?|2?RXC|MF*(|S\$>9OF U2JES COY,3AT|*O#N.|I
C|JY+M@5D2%=&S3W~*X)B9"(QOHB*ZC@_N?@A)<NB|8.CQ@L|D<5X%G4U;4GMGY4T M,0|+C|16TX&S<
<152|JFFPM|)%P)D\$P1J2A|J2M.HJFVRZ~BN%5T^+P|+K= MJ6'|.PS/A4|L\$*LAP2422|,;LE,(6TNF2=@<7)EIX BX_::8ZW|L<@?03
MCXOU.H(XL^+L|X_0R?6>Q.TA6-95&%(~%OW*)8D8|PFR-1A8G9>925:0 MYLM+&F-|0%DT-S?>|ZK\$^~^YU';@5*C7(T,X;N-X6TL#&
L_ =V1T8G<|H MB^*Y|B(W.(9O&*Y1BGBY,|JUK>G|MVO>7A!|H0G,|BH|OCS/X6J.R;LT7-0)
MLJ*8"1H_.\$:W4NF"P=|!Q8VB4N;^3D,H|4)IUN+;K19RO:254Q8W51(F:WO MD|N|J:|K(A'G;|J|N=6|B2Z6D|<=LGTS&2L+|>EK|!.\$P- M;=.WR+(\$9Z/
@+R+-2FT08N2G#R|F+.,#2"+D? ZVFO9 ?UQ#C.|P9'&I MT46|GIMO-W&X2)@&EFK|5SZFS|~1 MVWN^V^<=P|@NPPG"YA07
D4\$QNN&Q\$>I+GW@H|Y M9|E.XC^N#;SN.D=[\$CO(7M_ |DO,V|,.@HK+L<8 (I&M @:D|K8P2PO M7^KX|7K2P2S|OC\$NVP?NKJ\$95/.
|7|2D8>N6U&1-.|COMA|S:K|P|(Y\$< M_ D|@|8%N;09A *WTX#1=7KL1&K'&H|I|(D5 <21|U038E0)|IJE|6R##>
MT:A\$BD0.>|S(X>N|S'M|N|WVEOG=|2\$;NOL_2:L,8003(7DBVO@)3X M<%(YWE422"PA|UD8.&DO3>"V-5SZ"1|D|)%>|2\$BY%I;OA+N/QX:6EW\$(?
AANK4DMD8Y+@2:MH?RDM|2 M|U+V-BP9K\$0(XOJ|YB9C+%8O)8F87;S1E M.IVD.#R@RM
J74|5VL_~*8;+E|22,O|&OPY=M)M|!#D\$|X\$5G)J|J\$B(6 M9&GB39D4F8EDV5|G<.,U(OF8(PC/C@RZLRM|K)FI|P@X)XXVVKYH_ ^;T68
MPIL45P3(MS>(P#D2>OSBOL:2F'|JRP-V>7F51X^G|UUM.KG4YENA26 UTI M9GS^~J&L'T;P_*1>+%TUU=|L_0A|WD.(| ^>"OF#>6F8@;AY5"
(6,M?2:1H M35PFE@O&Q4,B|Q>> BL_ QPIL(&5F-U|7H7S)U(H5\$&L+ 67|JK^V DXE3+ 10U-5H|H(&|A=)GFL7%WTA<|WC-
&2PCBTYW84;\$)U>Q|J27> WT| MXB_<E|&JB830N3T^\$KGGFF"9K'LGS0HUG|F9'6Q1U|H-6B.BP-F4|;?@=>? MS7XFD)|H=7H/?
W6&XN(G4=Y|K6V|5(8Y&|G1^4U2,8B4M&TMK:*>A|7R*R3Z M@?|F;.%4IF61G|N>W;TSU<.|VYL7?S6G;Q35' MG|S6;YM,+%|U'5.?
@KWR440A#@AYV8MPP9|SN^R@XG|S|T-16@ ZW.VTU M|N|!^V\$S,RF&N?AF#D2|?>G.C|DD|L0|80|92|"
MCSPN5@4M|G8"EZ\$?GUC7F,1+3"">|JH?2R(H77R^NZ>|A^6\$ <@&8U4># M5J2?(B?K|(G""3|W3S_-2T"3XJ,L2 S&V4)|IIG?I%|7KU_P+^V-24B;.
MRP|WG_ ^51&C|P.P>ON1'D?D'5\$F@3G+|J%#C7;6;P_ 9#;KAKC,TE5C=<<|) M\$T5;\$^OM=P-3DD@XE>SQX3APXW"IX>DQF_<|@30|@?5)0G&8CG
KR MP1=<60J|(|A.'C\$YIGL4|^Q&B?8XNR|+=6GSBNLBS'ITT2-2A3N,3# M|P<5U1@M3;L>_~F%<5>1.C|S1ITE16W|U_1_Y:Z-A 6Z2!%\$&|@?>
2+E*0* MG+|X41^YA,M2ZIO4TOPOO|T\$%>@D_ M%2|B^E3214IQ YR\$*1S|LO(CDB3Z| M@):4@=|E\$OHPY"COGYO\$A|8|
BVN;O9^+LT:@C<5BLL(|_J|N'/9\$SLOP-9 M0)NS|6BK^62HRT5>E&T|16DW5|3EZ,3 11YX7)&G')>73RJ8G=6^3JSO4T_-7X2Y'
C|JAN&|J5W>|058WZD|IDX@?6="8Y LPD+@*TPL M>9;E;_ MLOHX2EC5|,##P&W3R|JTGU|,QDI7%@VT%|J|%/7Z|PCC.X06R|)
MZ'V:9*8#|P;|V;H#|J\$5\$R-W#L|>D67|RHC+I-N9#E95OBI%O6PNZE,9D M^8'R5N' |D2<~*|J#_LH:4E:4J1^47&E9\$A+J|Z\$VA|/+&O@KM
WOGV&T@9>5(4|W0@^9N6^# M783Y_#KUR/H|OEW\$FF-RC|J|_J|42F M^<#AD=/"E" %WSAU|J|BO:|T MM|FBI=3 (F/2?>"2|P\$|6GB2I?>K|U|
H9*0\$CY>FC6XXG3K,R04SN67 M(&^J<4V|J|L?C=;|XH\$|=);DV8\$6|R&E#1M^YE%R/Q&F07?T;_..DS|\$(V%68F)|D MN40_@3G|&Q>53H,(NO<=
|M0?K@LHHMP;QS@ 3.8E@&Q9^WDZ\$R|R1R 3Z M#<#?SE+ ^CR5DYK(="FB5X|N|Q),K3B\$^UCAKQOX/ RU|L8Z3(3T#RN@P?;W'Z
M#Y6XNS:97V""^\$|^_1.9K)<_#_ :D2,3:1E4 4YH-^|5|YR &KO&8DEZY, MK^DORX|VTM<^P|=|D|(|T|L_>\$. H8-9 B-
TB|)A34BAE4\$@EV\$^G5CT|T|G2+AE:&M6@=80^Y+;' 8@8B+T|J=\$<%=O. MMJ5\$1\$K\$APFG_58H|?>DF#IV0QN-6:EY:(RT1J.W-5C14|9C'GDF5A=
(|#3 MA&BH0K A|5_3Q^?HP|NR59&42|B8NZBR0NU MT"/",>V^|)(BR4P< 6HFTA*158,7|Y454-~BA&F\$SL=|+B2V+;^AN\$U M|BX2?>
@+3_ P|7B;|BE^M|+U=GP^X*)|B>K|J|P|RMRMX?|)HRU=7CBOO-2Q> M#^V34 V(K\$F\$%|V|_9>+ D4""|Y2|3A-SL@U|M\$KFG=>67=* M&_
U6_@KROWN8K@XGE2L)"|TF2|2'&FL_ IX946?OAU\$|1(AL@)A#+,HW'&= MA:PK%WOIE:2;(3VX ^VD=# ?HL/D|B|(L5Y31OG|I'29@:2L)?>?8|FAW-2
M|O|B("VX#&|("RYY~#VK.RWK|F.CP)Q\$WYAE9-MQN\$9IAE2|J|2G*8H2-25LAD8B&X;7 DR31,N|D)G M&^N9V|T|KVEX#~|)(H 2%+RX#&SFY?
QB<2KG173,\$*?; 2"7\$S(|_L3PML+9IG M60&#FS1\$=>9-@&=,;R|D4HL,1-0A^DV|&#QXZ^~^X IW4BOLG^##~*Y M_)H.S>(%ZLW>+>Q,86R-P
Z^I3X,V@2(OYKASH7F-/8|IN/%S%L*5%CHLT M-6 H"TY,I,%""K+U=#:B (UK4L#3.P*TH#B|;WUR*MEY\$CZC|U KB(^5 MO(4^1!#1N62AG|
>#D|Y03J8E.3.<| M?5\$F'M/F"/L2;G4);QZR4;1HB7D%1 |S|3G|OBYMQM3N^3DUZ|+~*Y MZOM_ 3^#Z(+KP |J|M8B;2DG5P|P:F#N%*52GM;TE:
M-W\$A.C)YEAT&L MK4|X<2?AZ|+&EN4|JQF|Q@;YH|EOJ,OS 9+|B.KR M#;3|MPF-W^#^_H DLN^(|ZL|J4H\$""QAGY#|<8^B/\$+MGCL-
|V6DT>+Y M2P|=35NW(RX_ ^ZPO/AZ3|J|OR>|(GL9 M,O.YC>7&R1/L)QY^CCLB|J P\$->U-WH|)FA*7SUF|>B9^FD.Y|I|TO?715UW#40M\$R|ZU3E F=
D,7|N8\$Z^#LYZMB M|8 +9#6BM 2(Z%2LQ|D6-R-^F@%:ZYNH0PAE2ACM|G;(|CV|C.(N8.("WNK
MDSU|N^~5Y^V#8_8PW|1"E^<#;#H8/H9&C:P%<@ 4CLY3|5|H|U74OU)&FV|@2W|(+>-D MR^WB8G\$F|W|J
<|D>|G;~6T2&|TP3| Q|T'M^>%"G.M^2*~*8M5U2E2XQ M#;B.OCH +EXPRE@HWL|JZZA;5GH^E2D|K,33%T@E9HO,HKE|KRKGR9UE8X
M_B_%V(NOT2K5\$F|CA|JZSWYR8IA*G+>9OB'7#.0(G,E#U+|G/*W2)/E:G^_ MOS9S=90\$&S-;|1DY(|AMM)(Z2|E#%'B5=Y^|NB_P|J|I(+&|E
#=&^.. N9-NH\$;#9#9V\$N|J;V:ZK%Q4ZEC9?+UTLT239S|C|J^VP|U|;<T(="H<=<164 M|L_(|Q@-M%<^B?|PG^5:F%<+05=#,+)!&|NW7DWBBN#
(%)Q=DK99~;9 M|2,38D|J~*~*@Q*1?EG1>,D|J|V=9#A)TN=|S-_Y^H,8\$2|;GL:O09V7D
M)2|.SB.B#2|,6>3D+>9O|EXRH(Y>91^U^1UD,K;L|P8S5=|JH|M^OW1BPJZ MS'PK5O1WUG.71B#G1%|878)\$7A.)Y=C'58+
&8Z|^|C^CR.ORK2GK|5_ZBL-0UMTZ#| M%FQ#&+W>|I5D9QJ| 9X_..9 U2?B9;E9>YK<~75%YC<#5&S+~;MYD6:=&M?<
E|U;W>97A2433BK7C@/8M="A"# YMMBCR|RO-^|@OOS M.6UND^BY?6|(+D)=|&K|5DO|->DU E07F6&'85^N%9|G#ZL MUS
E_|H(5Z^IIF^3HCH7"?2-7(-L.HPTL2+1IEUFL*6 M;T5SWJ,"K.=3-;F.4(B;OL|_FIT3E?K^E"> ?35C.'=U1^9#_ |I>WD|C
M>8RQJ|J|E:2^?O:UC2>#K<NX:68V,3+| 4E.EGURX|J|BC|GZL-2ROLD|V= MWN. "&H HM^YQVHVB6:QZREFX.F^EVKYQDN1|D'.R3R?
Z/|>|&K0^9AT^K@ MQPL^*H|L_0H\$<^8^Z3|J^O|XU|&V4HDV;7:~<@|J|X3^%Y>+G+XO;|K>C M_O.BIUO|O|<1(ECCN^C*2W_5FM| KH4F|O3+N4
|&?C#?WWW|O#P|U#_ M"N|I|^03.PN WP4_ ^L<|)APM6*6 M(C'5A|I^VDT~V%29->VLAO.PMB_ 9#THR|=^N9^')H6S<~B3^&B|>_OA;
M|6AQNHS3=L^BPW\$1#L%#AF?+UM#;L M"MV B(91T#4;A475V\$ME*BPXM X/S M#>D^M^M<)%E\$S;2;|8%>0|7ZR2-
|_7O3L#A|(!#|!|J\$%4D>IX'88\$VA|Y)W%Y*3%>O(3L|ZWYW7KM3 M2>T|8):CF4_8%1^L0 M7|J|8SX5|O|ZZN_-00<2L|TA#M"E+>FPP^7TO4>?
(GP^X|M#P>3-3RKY3; M^*|A:3A|X^H2K=8%EODH2, D M%\$%??>0/66-D,1)&R^H"(I4@P7|ZR^BU|KXX;Z|N:HFKH^BQ52VN33LKLS|<5>0=.B.18:-

[illegible]

M[72%~|J|=6'EPJ%4(1+5XVSHY>8|U0: MJ<B'.RF<@H0D12-N=7"D&%.P5.%XP^ LU: "I*\$+U3:%E"?G4+C|'#OG.+94|*?B-I+JU1 M|@G+ZB|Y^K(4'HR1-SGT;KY"~|140L%SU7436=PI,D^N63 |+-Z+ F2U""A M=UK%F4J?>A)GW2(H* OCUPNE<5U_)D#JMQ8%T/|- *12%>5) \$C2POX70 MM2H,061YMD79GX:DC*6?-ZT|@*OUEU,|0U=P96OF"0%"V)|\$,NDTRL5 M#M3 D,%E\$5V\$2^Z6N85KA)F"!X)|JN!H" C082?>NDL|X^QACAX3&MUH:9P MFU|++ T5YKC9Q|OD,OVU?U9KD3= "L#Q67'6XJ2T^6C):*|JYVYNR'1@4IT' M_- :\$,G>,U&|I#%.,@D6W&BU6*X+A(4S3F"N:72^Q>O4U:R%L1CXV-(S|J9MD# M|UG#120>+##ON1'Z,I|*X^3|U@C.MOGF80A'\$F1|E65D| <13W>XEQ0^@+=...UA;+70XWZ|>X?D:8% @*? |IISB|DL>=M B.)M*2J6|>+##(I5C/QN.N.*=B|YO1Y#30FE,|3|ZZ^0'Y:GC*TS' |POKW:L<7GS% M""HQ2V:IUD^GRS_5|6'A1MIVL|U -&V%6@WK>@,E:6XPRL^|:OOM:Y+&# M^1^ND2+&+0+Q.'A&9%G|AE,|D|3AN.5R2'|(U1325^0F|00) (|D)9Q%&CPA MM5K2'S=|@OT?V:T79C X0PMAV3#RICH^LWPO>+T+L64;).UB7|X.4 "85&PC M3|9|M|U->7>KT.#Z.S.:?GV7D|L:=?(?/I. (5|F.48YB|Z|C#|ILM|Q|UQFM?M M.*S>-&Y95R#(35X| B"Q37399;XK\$|R5P8|>P5037XH9^ OGM|^T|Y)):M*!#+R%Q>2EO#|882I8- 5CE0AD:=Q3WY4V6|UA+Z%G|G6| 632R1ABK36XB% MB/N(,;3C8W0|WWWX& M.S.L(F5|LQ,|N);WB;"|U\$0Y> GX|B|Q>4PN0|MZ|+% ;WQU#7P0G1|B|+G^T%6/RB(H@|O)-V2PEDWWEA8'9|PG3,<^(=/@ M)=A|*" (O?=BY B<-3'R0E\$!|C*& "-06+167(G^1 11@F7#|,9@K&N#BOB+ Z M8;B1V<-N/GW9^K3V#^V\$|9|HL-3%>5|;BB#)\$E"H\$JO'>B>YBN#GDR6(T M^T^T^?Q|O)D4\$X1.6M1-MG:0TA|2+;-G M^VZ.*T=|%1'6P|I*WDB MN|@D2(F+P.1CWOX^1#N|MTZR^V|BG^+++.0^ BOZSOJA78:X|O|L^AV^>+LU M'E)E" C3UY>7YV47Z:5\$9Z1.Q3|B%#\$ACG.|-8(JVZA5Z^YL*I:RNTOB=D MFV-\$|Z<0?0KO_TV<^=:LBX6 1WF1C#MN|3&+K1LN&A| Y&^> ^S^>:X^10E MPOC6T|Y)(%1:5R\$5*+1|_Y ^\$A"TI|J|@Y|I#^TV>+VW" MJD5\$XR|(I@I6VXKCD8|SI4Z^E 95A4D9>.,L'\$5GB=775|7K(.5G<+&SKCR)| (M7Y0.T->|3|3Q0_1D|&|WR.#^8_+L+4:FLM%TZR66">J=|\$(LOY^4|<272^J. M4A(+=)5\$MTD9|DH:YTW9C* 7ND0+NGR8 "L2F|C|7@T\$";H.9.,<:JWZ04: M2Z.>3)|ANHM+&X|XT%\$FHAB %?#7/W\$0.Z-#9!|7WEM)G\$WNQME7LOR3|1L\$ M|WW|Y#^0^G|8?5P 9..|SIU9:4SL>Z06K- %R=J:6&4S0^|PZ(SO|E|)=V6E=V!\$;..#9'8^N|>L.\$5D^|VSQD|^!CG'O: MD: SI5W/M#NSBSF.|E<6|_I/R5>|>Z>8=&%)^8\$AY5,1&@?HP#V OG=; MKTNX%|;Q159ON8+&5:7G^|K^S^B=OW1^|4AJYO6^QIXV+45(P:Y|TJ| MM8;\$8+57CP)VJBW- TY&I|=BE|W#|M|+L.LCQ0^0L="#J^C'S.LNN6^V.^4S% M8P^+50USRG+,*%M^\$^|9+^UN^C^J^A^H\$+|S\$N(D&KZ3AGX-:A|3>X3A)G+X-% M>|&";..HHYLQNM=|JN| #WD5' B3PE58K 17ZGH@OE"1_|E|+B|V|Y%XYZ< MOZMCFB-R)+%8B.O^*87P|@GC_|P3?# |L|I*7S& &.(3, @&K^K W2< M3=|J-9W^V1U:KU6|BYL|H2O:F=J)\$ZT|(I2R#PK503\$O VS7| 04L C")\$ M|UM|SKL|^P>C @H(7\$'L!H (P^J|^!&GUXW)Z6S4 E)CKKUV"(I2TRC MD|U>W2V: Q|E|.. *18_..\$S.;5%PP|J|2F4.HZ9P # @22ZYW\$9NG&|NF8(UB M7=.=6%1A0^OKE|A#79 ""7\$ 724F P|Q:H4A-%P>:*YIEU98H+^ME&RMYA M9^MIO*|Q|1KHJ^OW)./6+2% C%QVH|^E^F9'28H1 YVT\$Q\$S^&2E6UIS.0(D7 MJ!!SF0/B2N@9\$> 6I<^|VY|D|IOQLR:.RX0924)32HY |:A|J 7KJ7^Q^O*#7 MP|3P0|NW:0GL1^C1:COEV9.UD5^0(C^8)|A.0MHBO:4^J UTOX<|<D|JR|66 MS6^B|MYL|FV>A<@P?|A|@:HXHN84B- Z(M4^0\$S^VF9TU^X9|I|QOQ^|: |L|9V46:2M5M^Y19.\$CL;E3C^77*^C M^0:NIY8DK|IR|T92P;|_1|Y|&? 0F33G\$#ZW_8^">N\$ %H-D?KN9RW-ZHY<#UL M^|J|O|LP== T.X'65"Z5ELJ262|G62V>CCN|+.*5K|:|?|QO|HUETX+.\$I MGAO^&FPP0R^UVV7^0|YLMMD9D2+|X6A|B\$K2 MC-|K|4M |MB:P:N|XK9^0%.@D|50A|K|^1^99^4 O-C1PD6^29=;|0^M^1#7 M^&EG|O_|E|I7- 5=^?+O) (K\$P)."-M_2Q|BBZ7X.H2|K^@H^D\$|@|)QRK9PXZ0@Q7;|@KE- G|M(G.M@N|K71FFP|U|B)+_0_8YR|A|4|NBXGJSK8A|^|1#|+X^=,|>7E5+? RUL^V M#(C6_|D|J9-Uc#-MXLXP|??-8FPTGNH^4YEM0>:%\$H2SZ+5K|T M|WPIPT#&H^, @96S:Q<3/53KK.V^7.#ZK?|JBHOW=YCC(7P- K^@I6ZV2^&RHQ MC|O67FH| @TD0'\$|A8.K&|^&BUP8#<|R\$&|@&=7&:UV1|'3\$P^HNG?7S.9X. M|H00+|F|BG9K7 6'4|L2|TN|^Y7MM2|>2;|GN2;?FV>2AD|BWL1Q9SY M8CH?|X^&|J+H\$&:VF=|69>^/M|6CZU1Y8Y^D:|A|Y58KZQB.1|7/90/R% M<7DE((|56X#|&J#.&V@-@Y_#>53F<#|T4SBK&A5UZ^HO^+&"+10(B CAR|=- M0_|Y%6|M.Z^4=WM8^R>+Y\$M.|ULR:F9+^V.;<:|M|J" MX0.K|2MTA?>|%M&TG:AT^?C@6@8M|^:F8AWL9P+^PZ=V9R|B=|A2|Y|FY.C M2&E&K|K<KU<7NN^6;RFOB^5H8%=Q7#*:QY-/VFOCUB3 M.HN|Z|Q^FYF4*1AXZKT|J2G^K5|H|_*Z^XX+^+Z+|B^GAQE:9@A52XGV4DOY M18;|U@5?|8.Z|0P\$ZV|Q:O|A^EB.%&1Z- RE|B| 2M+P\$PP^Q\$BD6KGW-XA# M=8XN.T2AMNK:E=6B75+DN\$S|J8^5A0|*M.=^QG:|PV:|SGU|^QO4|J M|OW\$N|&R5\$AK|IDZ^C^Y|>%KJV7|HTOS8K6:Z|UB542X?<1 AX|^*=?6X^1 M.^2H+QZ?Y|I8VU66^K:27R_0UD?2T7A@Y.B|N(C^?^4YQ\$R>-V M^:NG^SMFZ^3@7H^O!;.&5E1;|9WG08>AMO!|WM>1VOD@VY&AQ^?;@I^:X MPM|EE\$IT#:.?6.CWV,|?H4V\$5^CL^@>V^?>2N^X^*TDR+ N|SSNGW:52: MLLN03T6K72+6+<=D03A^N|U07|N|5Q8%. ^OQ^:NX<3AT R13AR.9BQ3|5 K MELFQ\$2& 9H7Q2|%+8^KN^|IR|^A^V7- D&QU|=:|3C6^F_|LL\$B|J.3.X5D MEFIS9U7^C|Y9^+|580|K#|E#|=|OBR&:/&=^C^0LWD-SP:3JRIAM&G+|,|S>+<|.WR+A.) M\$E|^BV3\$HCO^N=50G&:D:S- 0^0^|9Q>2EB-RJS25+^+>@5K= H.8Y.@RB M@|QI|=15MFE5^/M|C|EN|W7\$|ZV3QADD^J|PX7:VC9 MA64R6O;VO\$F(5P8|6 MD+U<\$1 Z^_299?)? E|+&^?O(85X^EY;^N@540^|A^?%M|LA\$;0|4-86< M- H>:BGHL89F85392.16K;)FN8L8/R9|3A+Z|(LS369>P.SB=)IXY>SIS^C@MLX: ^)S9B|2(5T(C_R%1_958-|D)H39M|IT6RB|K|G^TG5 MRQD12)Q+|PBD.O7Z.^U6W5=-NR%DO |K^_ M|O.KA/9.Y^JX:3+&^|G|^I MBKW|86-^1\$SKD?>2|J|^XA^6Q2Y^T.-&^EGX0LKC2:2>1-/LXWE(>|@VOT Y M^R"3|2|NG\$|^JTV=|734O^U|YOIYV2G7DN_>1- |GGA^678AMUDUG4W6>G5 M|JYV5 EE|8SCO|1W:W^QO|CVBZ^*G=59X:V-M.4F^V+T\$W:=>T- CX|NDA MG35IBN

<5HL1!NT:V)MN#2%[F16%~&C0\$6]@B2RD;2=CI" MK\$[IJ7WXIC/K>H] 1*&~@5M-|H UUM.7)H? 5=FH~P<%"ZD'= WZ|HW 92Y M&1K1ZMEBN1P=E-/\$0!J\$:/O/AS?H0(QO=:F5|U6P/2>%N"HT"A*2WWA/A|M9Y MP 7DE4-7+* EET)2|<((7-S=7?Y!|V=7=(Z/4 /A5)-9KT@M05W;MFASD&2 M]2*VZ=|F%=1XU&*)G:0;US1' ,PO&O4|M*E>=E=B">+V)Z>*6.Y.FL1'+G MB4Q?YI#Q9'XM,SL"J"/>Z7?H'M7N- !Q2:M7L:(C>Q)QY\$L81K9*43G2Q@| MW=|(0|2UYXXD+;KJ'9GXZ"TW,D~W@M*82)6XIC:B#KCQRV:>|5|X&J0U&C" HL3:|P|JWXH!- |NBVET&0@%C5@A0|J4W*CDW3K0<|.SDP"PMI.S2|QI+|B|LH+ MK R./ TH4| ^R.H~V-DZ|J/SUD>V6W80ZZ= M8!%#2@~X86-Y4\$GX+65IW M95XT ^!5"?|J!%6 J-XO :*(71)|EFHY TS-.K9&+RR2UYH9'YX-B MH#). / (P.B)^C5T|D|X2M>6& *#BFT|G&Z@0@2|J>'3Z^ ML.6)D03IYV:A4"1/#A=:91|P|(UPGV;|0 2YG+7~.46|&X0)Q&#~^C%(L>UHHF<42YN4#>SSKIEP+Z758 RO8*6|Y| M |*AK2B5OFIV A5WEL\$>BNS1N19FB 4!~<5D|&6~6O6|=\$=|3Y|Y1A7E MB1(C3>U5>+&UAJ8+6+CF:8.P|MQ">+V<"S4|QL\$Y=KVVV=X\$R#Y)|J|ILO:~AE MO? 70/H:PA0@&~%8UDX1"~M8C|W52ZF~|JSM7:JSLES:429\$!|WL|S~|!<2-F-G\$LO8"TZ0&6WU=P5-5|LZ|@*~LA"O\$SY\$C30Q>H/C~X=>AYBU @#B29:I' 'O4VR<)7!2K3YF ,':U3.K|6 M#\$~#W32XA)+Y=\$(<.@ZU*+G0!2A;0-Y0E+)|#&5Y J'(P:R1>B?)=9WXXMW% M+N?|I>5COM)*&RK8D+4;PLR8931D|)? R\$GN0;|*HL:V?|RHR5<,+&90S2(4MQR3YI8--8E/L6).R5)OY:Y J/(CCO'P.Y7 I(\$84-I)E2 MIP9.T# ~\$&X.M;|*WYS&NWH\$S|JF'TU3Y9(C:R=|&L|JYP86&E<H M?QCMXYTV67 10328SU M\$5(57|J|4|0KQY(MK?RLY"%>KB9|X 5|:TXA \$4SK/IC'/?+? | =+>RG)2T 7F MYNFI*K|JE*| 1S4SA-EC4\$THR<(Y&<+7% <.;|WOL|6U:UZRRZOU|EK8E-D> MJM%IN~*TKU"(O 2^7FF #|/("I'G|DTLJ?<.%VS%GF9!- 'Q3.;:=NPD!\$ M6<#~CE4Y>B96~|D30W 0NF7=W7L|7DM83|LP?S|B33V8)0"0'NEE|E< XS|8=;&5\$W|I|JQ3AC%|:77|JM>F786=6HCG MB>#Z5BK5\$=M7FL/|"-T2TE.ACQKG<8SRF3W'OM|!A\$X B5:N=WAINFO" MAM@?JOS+EU|C04RLBB060;0N=K~TUTHU @|J2? |9""0>+9LJ>HNHNHR' MJ+O2DL4/JEKO.JNJEU9P:%2&W L|Y;0)200U|O@<|+|NO*O1TOV<3)D4A>N M3N(=7 \$9XB,MHIA|CZCL6XWU|(-T<- C5N@;|IL6T|>59|0%=>=:Z:Z550C MYM-I'ATP. M\$H,BD9R DF5B+F+3|J599)1=X@;:&3G-M315KJH3EUS+1QT M:@#7#Q0VZK% [2.2.UO +BP"2|UOQV.L#~>|X|7A|J|IE:561)M|:B\$N0..29- MS&#&TN*M*=OCOM|JL.N.6'L|A|9360S<-%@C|O6@TOV5|NORE/E|DUGY?|P2N15665- C191VOI76VF2@!; MYWE2|*6|C+IOE>|>=%(%\$QNO,L6|T=>C(K:RRYI5@HNR S|L8SFB401 1@ MKF1|6V2|J2VA~9Z|W6|U ORVCS\$3|4K|QO(D!~<|1|JF@B6|4+1EB7? M:'|7M6A|HDS AF#XF" \$OSM;@YQ%8H) |*V'=3\$G?:Y37?@GV+Y3L* M=7V|ZU5+N+ZIMH|.61 D>~)H& "K7>#R|2\$>5U16\$O|ED2HW|(U:80 8=M*F3V9|VHPA V-M* 8-NU(+|/"MXPK|I OHU|01DPR@O @R/1< 8NEG:D)H M+=@Q?20<|6FR\$8|GZ|:H|D18EZ\$;HGN'R+46 M12D7=@A*DDB>.U6&E=+..H MBV>:M):40R N|.#:|I58+8> |J72\$AL:=GVD|PNVR|&JF :|5#~^|;QW+; M=1>?RMX53 FS.U.@&CK&Q7T5|2L-N-B=0T1M %BBG6-9A9:SHF2HOZN50K? M.RZFDFVAHFKE|KRJ?>M16\$2|M#~@NT8|O@GRF~^|4.R0= MV;2U0>WT-MP3|..D>~^WG _C|S|+&H\$2R3D1|Q~7L|VTR5VW_H8>%BDSXY-V MYVRT=ET|H|VBY|) O-Y=>#S^V^A5^2V.0?4<~<0V^*02V^V1~VRD93;FEY=:|W MPQ;|DIH@V^~|BW9N)G:~? ODI@RHY|7WH|((2Z.TL3/..L&J'D^2Y1YVR@ MZ&O"=;284K|C).^ H=|N:=&C-54H2RRS:8Z9'NM _QE=7-UX+|,ZT71D5D9 M59\$|)?7:5KF? S*~ZQ59TN2|T|TO>B>+>|.F@G\$22,MDU!=EQ|%VF&EG| MFD|A|OY&=W=;>Q3'ISC+C.AKXHUHO5T+08 Q|T.I|6F">~PGE^WDL'IK8W MN=.FIMX"/V-D9V>V>OLGT\$=I3\$1A9A#~+Z4<~.R8*0P=VU%475V= J;6|M+QM+QOI'A:K|I5|ZB M|J|5Z~Z- ^|X,X8|J2EF.EAF=EG^A|Z#PLT-A2U=Y">TNYR?FHO/|&"3E&KB MQ|R")|J|~N'.WN|5M&2Z691|(U4M E"H5*. WTW6#9E8=PI?EU9|RYO5+W M#T-G/Q*|AT?|&'T?&D.E3^~|X/U|5Y|;; E^H|J5|U|6%0G>|428? "Z|0* M60R;:/>~5CP18HSW %GKA|WHE^S>Z|?FLD8 .KDZ3MWV7|.2.188'0?ET! M|U. -SGHF|OIY|1.5A2V|N|&X ZEDZ?~C& GU;(D)3J|..-/ @50G 2?>O|Q|6W B/9S&~R<~<9'0~YT|YULY M^G5JG326U9&; DU&E\$Z|LX|>|> <@1'#\$G=,00E M|O>?IX|X<|)?(9FP|@CV@)"RFNK5\$;L P&S "06H6|J\$3"-L<.8#V8R=2CN^~|T>J M\$AS,4X59TA|7|@<:(P MB3VCD|,KT>S(A: >3TN4U~|L|3K79|A="| RM5C)1GHGR<~&*~<@U#"; -&NG-UYML1&=Q9?R25BY|MGE7")C/K|~<7%+M9@D MP2")|U|'3.C.H&CZ02=ZMS<(%EB Q5V| 1HK;TK?~?/5|'5|N'XWO:="H|X55 |4VHML'~X8>V4I #00;"D<#=#02%2(.,X5|/-=LA@ 7A2|?|U|J1M 4Q|O;9(>8OX=5F(IE7Q! MBH\$DZIBG%E)<0KH,LSR|,VP\$4AW0^~^\$%)")|48,BG-/H|A\$EO|>..D0RD7 M.L|ZD|'=2IL,M02P8WDK4-. KU&-5 HYWA|@+9|YBTE|T2)EOXN., |81P(A MCSWV47#~B #@1T:1TDEW>EXK~?|'G :~|)|S68U|ZGAP|'X9,8L)W#L M"/AZBXMAV|N|7|Q5 MNL0Q|L|Y0?~YY^9..F"FYB?P;2^0/9D5)"FRC|J1V"SQ LJZF|Q. Z=)VYPIB MY+XY3|*\$.=E26| KYUA,U&K;?M-NW6-G7~>9"M<4I5G"! (E349E1VC2+@~ M.Q4QBP T4A00#D:PH|;+.SF:|L |D)"?7|J|K9R?C?6U2YAT|E&4,LX1>?DF^~|JZOJO* M7>YTS,I'F'HF|:9L|468,1,FB+W+1=6S79=76;|/8;S|H3:F|&|>45A M& (/|J|POD5%G#~U61H76E44|)JB=OI "STB/MO#D K=|+1LC^A5|&OL@!< MKI!"+B3LRB.A MV|,OQ32OR2.CLT&^AE'I4SK79")X.LE;SXJ|FLFOS/S- >56%Z29(|Z4K M9|6C-KVD;HG|J#NNUEE"M# -6;TO^AX1*U)ONOV1YB0%VFK.4<~>:O:4T# MT/=7&OI^~M,WR<<8|BSA'.M8ZTQI(Z"/+!R:\$GB9;*P=*U ?HYU.YTK2RLV2:L74/S! M4|-(. 59&5FG7'#~O8PG|3V2DF|)>*2%PL+L MRPK:CGP|MKRRPI=W8LJGWEUZ>U>SR272?P|G>|I(TNSV1&K|J59,OLZD&C#K M?D:=V43RC->:SK24/ N? 3|S"OYT_OIR9U7=,36E&|J V#R8F\$XHP:0 M163%*%2:=C<* ZYN>7->@?U2Q|4|L;Z\$H,&PU@56P?<0SU|T.4J,8(PSAZV MQ+%" (=OZ+|J)*= &&UEZ0#"O/DU(%..2%\$0_U,4X:O+8F 3%V^+H?RIWXT&M5 M|C.A2:C,6=# @:|/K\$5|.408!M'R(8>8C(F:=Z4GU|/I@> "F6|+R"O?;KO M+VP9W|2+|J>=69XCB-6|2+>E'0=U|D|6EZ|U@U@L|SYKG"L..|RU<X-Q MULCU-P16#~BBDU">B>,26(8)P2-M<~<|+~|4P0081KQ|SY,6S"9K0- ZD^U4 MESE0.~EQO48|K2Q0DZ9DGX5D>7;?6N|@|JHR.L|U>4J\$Y|>4J\$Y>~B|>*6:-PTXL D;J<~E MK1(,8'WR*Y8U3+~|&M|:8#F!| <%,?|B>0&+9M3K80E..?)958 6EDT%|UE5E4O M8M=|&TW""*N326X ,W+093(%\$(B7*6SM8L1 C%)5-|~"U6P+~NI&-:FF|Z|>2 MHO=94T%:/). - K~|H#W9:~>~Y7,+GJ^RH^0DA"~BAA*Q|Q5Y=|&R|>O7C|5 M<~>W|=\$%2~*#8@HE<~70@NNS29MTN.B3|16|37|67Y0YJT00W|~+V9Y|=JZ ME|N7+|? ~/(=(49 "C":T).\$F80@3@2>53\$MGO8PL -=\$(9|O,C5VV6|F;W MH)|>G~G&P+1XJ |J~3 97 NPDP|(J4-|YH:|@?)F@:%NV15-J0&= ;R MY/"FAH1 %4% 6S?Y\$Z3:B|Y|=JB SW?..IH/MHTP|R^~AA'F'R-1'87(G> VT MSCF5!|=NBI%M^8:>2/F50=\$DZ7\$%IH|NX@|? DW*~B(W|@XU3LM/F9@ ==: |8Z| 6LO TKJA|'L1 <|8C #| M#AD44+MGZO:AM T|J9@D"O7|G2Y3Z2K:1S+R>Z00#SK6W ,~\$G3'4/COC!;U|' MOX2? 6R@V~"U>EEKP|6|F|>.(D1-OP0G|F|.P:O&EXC+K T":K|5IO0V5M|Q" MPFHU+6C&0QG>OP2L.MC.Q=7%BH3VS("S0QOHBNV@K)P|U;K.Y@|TH?L M#~W8010UG+7C30I06|JLBAD579"5..3H| ESUP>EC5D? HZLG&FD| 54T|6U| MB1|2Z@E7.2|B|BFVM|\$1RCK"U:IZ>M?H:L8JL|:(R3KN6\$%.4EK62?|J|ZQDC M-4(U|~^DSKH>B=,96F+N, |J4213CONI/WD1BK#+~6B>?|D?5BE"\$2|:790 M:M:V0)?BA|J?VGVMFQX |S9'L?:@0Q&M+D&T" _SUD|1\$~4+M=T% IRX+6U;GAQFK|UFT20D4T|D?C*5G | 7B1 M2(H@! :D+8&9|HVC EE"ID|5H5"7G |K<~>V2:~S..0E^ NKMUUV^~.D&|2SP< M+^~ZM|=|JG=V=755 UGR~90%\$OK M%&'7|4- U*LFK|C|)%3MH:W07L; 7#%9|~NKO?Y|(\$&Y6S%2K(CO,2UQ|5> MHIV<+? *T&T|Y8|4BV |D/G/"U:5/'CK2=|J.@B<(EC=.%\$-S%DS,IG3|M|A+HCYB)|~\$%N8|O SP@AV0Q|JX+HD~CLR,\$E+T2,=1RU?G|BQ6S>TM|Z-)&*(H M9)+U|1#0 ?N^&|;BUC|JYKEX%3|J,-=ZT8T|O\$+~|.. MRZLK|PVB9D&<~C7V/G'OLXTCOAM#+W7~.CC%PP4A(D|T|SG|ON! M(7|+?X9.%>1N3|~N2X'(..AX5+08G@-789 =|D25'B|Y%.;L^N&*W&|S| M\$7,8YLA=|<0GRYW.P5%9'FI/MRC,W5VRF%&TQ20. =U5&; (VZN:O4NLQG~% M\$("IRZ~%1%2.5OV8|N) M\$2D(| L8|VND0~TA&|AL4@<~YUVN9|VPZY,4TD>A|/';+ M@|P7BP5RHPDS/ G"> M #WAL(> <)FE0<~|)(U(U"MT|(OSA&Q.P, 50F'H&<~>;L\$Q>9?001.I09;==810|S1-HA>A5P) -S\$B;Y(R'E~N|W(DONC|L- M\$1|3|3?7.P|1WOR4,H9PJ|S1>B|=B- %L|KY5|VXX^*A@# ("D6|0O^ M'PBZX:(T<9F|XN|YW1E4LQX|UA|X>|Z9T9WK|\$*7E9&5R:T'/K#4&1? M2|S0,%5|Z|U|X-9S/HG)K,+=XAN&4 # |L>U7%~HE69*|KUBM@7-C-Y~&~M=MUCZP_LG'U|24<10|6RDNO7QOT;M?T *N,~EE#3VY:34PE.OOD?C(U|N^G%\$S>*+41|1V&3BG MNQ@S|(D5D1@CENM>R>@>QO7L&ZV\$&*~! RKC|8Z?+3G4A 5Y/R~"210 M|Z>~400P8RR9<D?DUDEFO>?PB YAO@? R0|27;ADBVBO|@> 3+!T"-NS.G(MM E5\$~*R,U23V<%2(VNS-RX;YO.P+R8?7#|L) YK@.3=|TJ|18X0"# \$\$ MY+|QZOSD\$|? T|9^G/A.: |UW|' |U=Q^&KL| M |R5|UNMA+|XRS.'/O|J5 MR&C|J|NG/ ~29#.UDOIBOPHS#Y\$%@)Y&N|J.3>U5E,>8ZP?(SK8>P1+O)^ M0LO(C|3- D6%_HE#:=T|~|K39+P,I=8=+?|V@9*W(BT4HM0#M:M:P|8A:(..MWG1):B&V":H1HB)|OZC*0) _@B2GM_F.XG.\$|TW|(0D81I@ MALK|\$56X'18W"G:1IY(A.*QWBE-|YKAP&|J05&V-^C#V@3|X|(C.G~G|L.MX M^~8S+ |68>15PYX%ZA\$T|T|+C^3|E=;E6.6|TP7<#OF'VUGPE6&|/"B6A|:8V3|O| |ZN+@M14RPDZW)<9_|K>B M^~A8S|O~!A&(L?Q?S#3..K.Y|VOC 5WFHV@AHK,YOIE _V|W:4;SEXY;G MF\$T7G|TU _W&8R|T|A1*QM(5 &VV1|V>>UM^N6'R=O'H^C/VSA4UP&| MO1(@QQAOD~EQO<0(0? #&T5#@Y|O5|Q)WQ+>G:@R=V0P+7B/3#V,|YU MK8R%|@X8'DV|O554:(HIT?D -=O5=GA3>RT."|BT4|/NKK3>~_BD2R6HDG2<_C<~"OQ7- "N%=Y8#|(\$7-6VWHC.;>~YIX M=,RK5;HZ+QMEDZ|IWAUFO<90DI?AP'+C.^"KBOB2W>B0+AL;~9>SU=*3R|RM M- X0Z)=|V|E2&@IB0<|F%|6634|I+>+ (K|M^X0*YX2T@LN+U6+A2|A#)|WX~" 6>=PXKKQ.D|Z9R|R|78QM.63 #@B|2E# M|J@8/9A|8|R7&=G1K*AP019@.3GPBUXD06 ,4=PAE(N5CL|M4PT? AN*| M3\$~VF&|@Z~>0E5WZ9R|7 ROSO02L,@M\$M\$F---=A5FCIW@.3B|&#R#B MRAW?Z'JRH3(01Z%FI4@|U|&A(W..F|TF2 |O|V5Y*;27MK(CW S8BY%4;A MRPII-54 8OYYFOE(ZB1LK'.4@+D& _|YI,V|M^30/C.HRECE>4- O>Z(H'OX M+>|6W8,HG>|7|V|T+>?)TFX0Q0+<4C7|L|L|U RK9?>O52#_XDZ;WRN7|O&A(M#XZ|~J| G|D4L(R'8J5>)D\$|L6|T.MPH8|OR&8H3;XT#S#?~ZT&..K4- M|J@U1H?|K82|TVGOD:>F:;CE0?47TFP9Z-J-6>DN^|)U4^P|0+|J|C'7X5:0. M5|J|7H? |@)|IQRIM^F %7V^~9UI*W)0@GNVH(Q &C'"9UNRF"5P%;EWT""A(2 M@+~%Z,*6%NSJ^HIYB-J<"6.5 |<99Z<=GNUS"L3<(S)|^+~O4RX';ECO-V< MG? T|D|HGW9YRB-MU/3 =F M|.S|GR..~M~J+~Q|99AG>..#H+&GDLX5U>"/22#|/1#3|J|GH8/ &T| 3|JTGX\$|MFN MBM8Y|N,(/E-!&5\$AE=(+~ 6|JSKL^QWO,5K(FVR9O|Y\$-S\$OS9HNCI+)|3|Q' M-C<@A?A7|E< U5("2C\$&Y@B M~ZT=Q#T=L|"R9CK9G6U?&X88=SQ^@|JU)- E6@V|K\$~GKVI/H1 S:"&8;ID M6=E"-|LX>?7FH\$;8*0 RL|A|A7H#..-""4YGLF+|L|C _- AUSV30.3UIKA.@C.2|OL2|:SL'5PD# MD1199\$9L**3L;ESTCY? K|S>.W"/%: L-\$: Z.;\$1S23(JM,+O|B|,R|> M8#2-P|XN|C|IYH0|Y-H)|G=<|*B."NRA|+T.;:U(3K">2|K| A9M8N|JNG+&# M8)G0Z(WP|N3W=-= (Y<=WN6|11YBN &F|,S0;78X;|K5""\$3R7X7\$| 352 MXD KGPY56>&~<+~|~|W771Y|!\$%84+O6|244|@CE(UR3 %%|A9|LDJ)G2 M<72? T4PSS&=1W>0@MY.G)Y:WU>@88#%|RM.C|5> BS|H(CM);~9%N(U<+~|L| 21MYNKO@12>ZD\$|J#%1|H|H&?G4VD#|JYM^E<~S|JAZPG1(Q\$|? |'Z"CH7+1Z^~|P;~: K6LKD M#-/H'G3,L%|[7-PX:5/KXJ4;A8|&Q9"(8*|O:B#H#M\$.ID+Y>C~>|C5 M.JU|GE7|U?L(D:X6TZZ|90 RYU| (82S6S>L5**9,8K" IBYO1V~5'6 K; MW1-WAU|E=(WC6C\$S\$;C8|R4LY13NJ3>"XC<(4FM8(9)-F=VGB,&T~4IT0O MLB8TPELA*B:(C-F- C|>|>57T9:VY|34,1F/WP|6))!:=#F|&4:>O2ES T MT|NFG2AI|MBK|&W&X1\$C|X..;G0:'T?0(E /PV9\$LB _"ZBKD3X)F| 3 MSW.5|7|J&1SXEH>KWJN:DCC?T=MKUJU0ZXE*9C'+|0#3S)8G*F|2HVXC3XH8 MHN7,3X&0|~#~3E4O*6|J\$|1RT41OZA.7)?\$|?2P,X'PUD +~%BF0 MEKO.'1Z|9N;7453CM@2;6?&(83>Z~|L.P|)GMS';L|PX%Y76B)|:P|JC-Z-H MXV0|&E;X8>~>--HA>@D#|&X~>Z^Q).2^CFR S:6|W(#.:|~7A..<5Z\$H|Z M|J\$|~@2A|O.W~L'.V?7|Q^OP|,="C3E".S|7'CC@~\$XGU\$|L _|CE9|E\$ M;D+T&COWV|JBRPO|H|;LUZ?~ (|~4D+21&*P&CSCV4O6LI&9VO:CXQ>|E*G=V>0 MR08"7..7\$8NY;T|/(UQ&NYGOL/M2X%T MY&0F.+ L* "VJR'T3TVI3:D"G2\$CEB R<4VRY1TT(? TO<~&H%KEF|ID@F'H(N2MMPYF&|/ MF|AF.3.H. C#;SG3|'P79OZ'|J\$5|WH+VXC9?~O5|Q<~?7L+73|9|A|)4A M&+L3C3MQ0|VSD|~*WOW3;2.BAA=|T46X.Q|X: MZ0>~9G6D\$T|5|7~LBV'E0QE'34C1.WMS|..NO'BK0'W4Q|@9:05GNT'22|Q M:*>K%2L.29? 6?/UAWOX5Y4~%SAW>.(TNW0~W|~OQ) C|>C-HZ/DI2Z=BVL)O5 MB#/~55?Z@_|VT34@UH'IQZ/HQ+Y|G?ZR<8(ENF;~Z6"P0^~VO9^~1=O?LF50 M8MR 'D)+~(21+J@|>\$>OR>BZ83"|FY(CW1^DL_|%6016ZKVL@MM=TR|P|L>|)O M-GZR:AYIPE|F~G2""*|7NO:OP&4;.#S"|~>4|Z/IEZ9X|&R:SKT|~C8|& M &RO-DZ?+NXO+QN9E,R(CG-C\$ MM^X0+9J\$(>~|09'7I,?AE|C|E|PF17VLW|,~5@1*AKB\$FX(ASLT|Q#B^#QO45;<~ MP5L3|J|XOC>F>J~|ILZ&~(IE MRWT:XTK~L17\$M^MQ2+O/S)W'O.A78\$5KGR.0|L|WEG|E|GK?9NLRU MK4|O2|PG6C48.L "DCL,77%~C;#S|IR4|IR9|B8H|P|H|E|F|D~3K|518

MD36H + 7#ZY(+*5K<)%3 FTU "?-14.FP)E1Q-2.%3T1V261I=01QK3-01] MP68.E A*AV-TC9CZ1!7:F#HX<+ LWY!:>@\\FU4@RSJ\\LJZLI48(J&'81) MGv:C/J J=-.5B5ZT P2D10# UKY3K=5%FCRCA 5%KJ.YX3P&M*.\$E"(0/1A65,1 MZ#H(NB&T!CVAD2,J30)ICWW"B#.NUYZ.-@.#3PN615] @&@&@.1^EBGZ@ M45!&43K-"9=S*J'.6CS3P/VA!)=UA>A7TP9-B.(6CPN\$S\$O M 4<5+BBV4HJA!J70>#11E.M M\$L2PS.@/V@ 9*R03V<6^0G8S-Y*72R.L\\BK/PV=C81G!(2<1<+U M=>BZ8F/!<.*U&G865?<C.E.Q.MO4S*1COGI!<M*N2\\L.Z95#138:-P%G11 M^L.UJ_BJF MGVD91E= _0*5%V3 ? L&KM)S_PFI4E^X5V\$MNR#JR\\..BAN^1!<!(I&#<W3X=AF+2T)GE^RIL_J(R\$ZOL\$SYNEBHWIK:"#TM M\$%HM9*BWLN03V)"_!JDGI.OY.70!<OH3W%=EB\$H?>^CG>70%O.C!X&5&M,->4C%Y.OE(FX^99VLA^EA)X1ON1\$910+J1.L!>SF*!<4K?> D%K<=>+? M?Q7EC\$X^+H/HJ!<L0QQ(1SK):W-C^L7) N!>1^ML MU^-DJM=1P8EL<*>IV3<9ATK3K(!<19Z6VHA.JMN=^A5<="Z19.N MI:M;+9.16-ES%+H4:XIQ2G@ 20Z1:51P33!4J0M58.HG#9^".(P= Q:G E# MU?> 321V#DHM61J9IX=<+<KM4^=1#N:8SJD%:TYM+SE9X817Z:=6?S+)< M\$;C-3 DUSJ2M2!6JDGHX\$E^CCN=1E^Z0R7@SFFFLRY1!"=XK#^8X9J2I M)2,P<-j63-JUN?B6012:XB IDJ3!6HHG5YM:3JT>V=6\$PO!C^!<7ZGBG MZ4VEU0U148-9-C9!&L.V:086\$TK517UL.HC^SO<9 VA3B(BAL C^F#G3J3J9)=02!<1-!&G42.JQN^&AXT7UX0/ M)=XB+RU!-FOG=5 8D^:6HW\$N%MUC4GHE=7D)UD=F<6**J)K5AKDX8Y^Y200 M,N>ZG4&NMXR0C @10G.KNL^2336Q2!/IC5SZY6L."JI+T7"G,N=XUM=F%Q M+RETXX2!<JB-Z11?3 :&(ZRJQ#P@!<G>3IG.M&Y!">A^K!LF1F 8^W62/15>1 MRS;"I9RV.RX^3H8C,<8:-\$W\$X!<V2^M^+6ENKG? N^GFQSW.1!DOS#:#.7^ G89QZ=EY#<6!M)A8CZB7AK36BJOZE^60KH!"^F53HJ.Y4RV.PZ:L6B2WG=*(TWX MF TQ2!<D45F^NH: K6:AI2^P M:/>G!<B\$.#10\$!ODY^U3ZM)LJ0DVH O) DI!\$E&+ :138Z6!<T29U!/< M2ER15^8\$1JY1R#>ZZ^8#D J159 J%\$Y&:5M>DTHR"?>1OIP YK&4<0/I MX>>3.(S7Z6>1BUL^Y&S2H/H10R!<IR2&=>W -P\$D\$GX?00G.9K&#&4^FC2P9VE6@ Y3@!G) M M^<A!57Q0<JY:A ^51F T^Z18.N: 3W8(W2Z9>F2G3/UDN22>Y129I.MIOP4IBVH\$G+VD^P!<C>3E5!PAH)UL.GE1K1_2_D0!%DG?G!/<N>#^H!AVI M<5 920H GW^O.YXK!<B\$DOKZ>P^8)60.LE!ZUYKHPI*^=2%UM\$[PE<[WB=*)SYE!X3V%*9+!UN:| M-MM |HD":*F59J!<M34N/Z^3JD?H^6WY?/5:IEG6T= !<=O.UF=0R^G<D M MHVIX^K=T+>S>(9) M.N+U/+9M30L/BFA29F#!J!S; X!<FRA@=-.S.J+33FQ7= 5Z6!<1^XKE MIQX!KIFR.T^Y_ D00K? K6!<6S#1!75(108^!<LSH(VQAL:XOFT!<23=2:A: M914O.YZC^!M; 8P\$J!<4FCWA/MJ!Q4T^SXSf+ JK41X/ M3!)0G^4Z)VL^OT S:@5GN8.N^7<+<E)%XAW!<LW M@9JY5R&LW3T.JST2^V6Z@A0!T80 MWI+>54W E15<(QM> 63- &S0.RW /<+>+;NA;X!<XH=CG+QE6\$XMP XI>B^6>9I M1^K=<M^J">)!10#+8^1%8S)TJ!YD) DO) 5\$H%LJ!TIC=&49K)HL(" M&S\$F!14#LE:B2^K0!5Y4-8J5!<C4D!H<_U+&@!TDL2^!\$V6%6YLVWP8!B43 M9K9ND1538.FD)K)Y =+DB1R!>.>)1-NUPY-9LLG_1% (S02(FB&9:NO3!<S MUT!&J."!<HUGR^t%Q^2+>4!&KNIT:QYWI_10A83G@V M!E^4G>NHC(F32!(0//S)F!<C/L^0&I_09_6SNA2X>P)+H1- &A>R&G>KY M *WZ".)HE6/WJ_.L19M(XY Q4C.2!5_!3.XA58^!IRPFGB C M@3.3&>AD?>TLANNRIB5 3.LEWKZUW)8KL.TQZ!H<8><0^<E!<PC:1Z\$A V M?7OBPY8\$JOA(G+N@.I.P8^BAM9?<B0%)^*(93=Q=CE^657T^4P1CF"#B:< MLYFR0.W3UW13QAJ7 FFFP!1X.9K3!<L!<GLOALB7@H7?FAZ9-QUI?<C18A:8C#6 MUS^V^8>J!Q^XAJ>1.L2NY@80N&8B6#8#J!98:\$E@DZ_#YS9\$SDI\$F !\$ROO4.M@=PIR (M15.NPY%>T0^<KF1@Z)\\ MN2!2V@T9^S%)M^YXUT2M&TLF72.XP^!<XD2^5IF\$N\$:-E=-0!64UDL!JO MGBRB!<Z=1VV13PI2S&< <5JR!<KH!MH77GKS^FW>K3>4!<16C.GM G2!<2M M^..DRMG!\\!4_7WTZP\$D.@JL Y^&V)LJ-KL^8AQ5WH\$%:IRN%<!<MPY8N!= MG<4^>VCA+1!<E.NIE@00!<Z^!<JLE\$BX^AB.O-2B!E^+!1UO OC7!<HVOJ M8RE6#1K73R%Q/U?D!<F&4@<BWK4^0E="V^<Q^O\$%!"?>5C#>+.0@Y? *OFG MJOX+6GJC J2\$4H!>6PJ_5@5NK9=8W"\$S^SRN^R2_2Z^U\$>>><0=<S)M.35\$I M75CUD0>85!68!<M^!XCUD^YDV!+!F!<5<+<XJVF:RA%6AV!V9!2)E.G MY17^00!ZP.GRK3F!<@*>[M<2 SD^2J#>RYN2HGDUMJ Y!<V)NXP^Z1TA M)CHXUN6437!)^%X^<+OY=IE4C:2;U<+<M-XP+B9CEJG! GR-W04!4X)WX44 MA H)PX1WJHB=Q93^OO^U^T^1J"-G!J^HN@@@ + !A@1NGRPOP^O^O!M(57T MT.:0KVFT000J6!"Z3!<1WRJWS^NC4)K) "B-W@C!)XG-R(!<=?<HR517Q5&FP.?^'+<KMT:9^0>OL949K4.40\$; M6X)+P7GFF-IRJ3=>U^#U5M^"7 CU^!<HD^V!Z!3SMY\$<W8U3^84@H_1!<IF2 MQX8Q!(2:M0>IAB@MU%=> MY^<@<I.#!<0- UH!0!5KOWY52TQ64\$F!V<U^<X^40!<U/UG5(LZ&)N-!<Z!<H502.F\$5-T4AD2X-J!MN!VWXTL T!>_MD_!43!<8&FAM)PU>6DI:5!8K* (Z1Q10^3!<LX^EFU^<WR!<V 6?SN.#6!<3J! ^N!<3_-=Z^<=>^\\7^>7D=WZ)QV!<=?EY:N!7UJO^T/ GBS!<H^U^OW_SK_?7G!<OP^?<AM!<NXS MF%_\\!<KMZ^<O_UTC WKG_XZ_0+6=Z!<FZ^<S_X.M!<O!<I>T^OY!<I=9^ PT!<I^9?>?2N!<Y^W MRQ:2!<C!<VWI!< !9VOSG!<#>8A)YCI!<2CAW+M;G @<K:WZ)JL N7C_#>R!<M>WRO>OSO!<JMWQ!<G;<^N9U!<FWJ^V^?OQ3!<F^<3Z>+<#^?>#(1XRVO:CI:T!<M2^X\$R M74 8L^?2;R.P^CM^XRXR:Q1^534 LTWW6@GCI^!<HI6>R!<J>M>?>FPX#_9:ALL; MI>>G> 3^TG^DI) ?2!<BTE>OP2!<CM=PR1=PKD/OJ1S<=<S(9V/MP8!900&A00 MJV(XEL^<^FNIO(!<=(%RD)E.H&F55E!<ML^H%=> MOS!<H7.BUA.8!80^#9I(R^<F44OL0R5M^Y:Y#G\$750 MB&84N!4!3 JO(73^K1X.@!<18C2!<35L;8!PMV\$5^5^Y^YNS^<!(Q(S))Y!W)- 00T8(S;SH8495!U6224(R^<4WR.* 82G32T(7^\$=<1-!< MJ.DQYL!<9G6XJE^"'''K^M>0!<I< V+X.8F+<WT_<S!<JW50Q32^\$S?>6R:0 M<^<^HG4J8=HX^!<TEOL^%?>^H:C(9B0U^<T L.F)34Q?_2/B-!<HP^<8

MM4!&HN1%),IY-Z111>82K5O!C82;[63+^0HW94B^@R6A"X1Y6SI!+IVH3Q(YT#QJ86)O1YX?;9G%A3R-K-L(-.DEZY3&(9725PL=[X9(?
0?);YNS>1<@GZR2!)+M M7T.SHW\$!U M% (S\$JIB@3D)7"/B1?<="S5[C2]EJWS,OYC Y 3;/JUI5UE98 U'F' % = MK+
HP^!3&\$Z0BQ>8W=^DFZRTL4FXMAU?N54D] P1\$Z73;)GBVLP!1*X3*C22 MD*1V96\$K*DZ9TE5]6.JP<@AL/-.j66]Z3O<+ [.S!CPIQM3LK)?
Y/K\$>71O MZ#Q9413(>?;S:ADAQ5^_P^JL!LCH\$NL=,C5]11VHA>^J6-@L!:@2G1N+RY M3MKD#C%\$TEWEJZ>^)/J-SJK6&:016S<YA6]C."
AG&H12R!..P.XOC M_D#^A2AA S=G.5O^ PBWB)EWJUD,VY!\$+FR) UH2P6Q1Q=\$B@SYJ6)2SG M"PKYT9K5P@=6KD"V2DT8 1+2]NYS.A9OS)-
(.9=&,\$.L(U)M3)XUI! 8 M"D4I,5^1,0"CUF@&QRPXP" M*R!?. HARDEFM507=:RNA+17(=B81E#&= M/S"!=NPS8%
[K6Q3(9#CI"1]+INCSC0!>U&LE49 M4\$.?#1,G;NIS>(4"GBI#U?S.511)%^XH=V U+@E-/NXI@J2*GF7?TE"ZE5(\$ M2IFC^@WQ(?*^M?=3KA;=,-FYYJ>:
[>L#3]D H-EJEW\$44Y0?^IK+ MYI"?;S4(UX. :7 \$+*!/?C#?7I(GJ7Z0@/H_!8\$]27 IQ&J8-7\$&L30I& M:03U#2BF=20LQ%1,('B,1E.?(LIH)(T8)U
G2.V\$B*R*Q(>TU#QSGGY MO'X5>1.&G;-\$I?8&@E>403VS1:(9IUT8S.B937?@:WG HO.XP@&2B12+>"/O]=FFDN)OGT&MXU!V1!\$ M#8\$Z5\$?
IXEQ>(L2?7I(-U.TF&WN=LV09@) *TJ)9IP#;|<11'B'SFR%T%Q"?+ M750+1-T(; "VS18..@/J.HRR,TJ6U%E_9.X;Q8YOJ-N;+A;J-OB,! "%F(E(N
MYCYH4OQYC@V(-#G;M=^J|J94?00E2P>4.FCIKMRYR)J!D,6.HBTf<>CO M,AY"
R=P&2V#4!"/U.FUJ08,IHG^NS0FJ+0H6J&I7D)TB2??,O53#@#78SX7 MEJ21IC@/G/) ^-3D6L*%!R+;1:4&NR\$B]7Z+1FY3KW +F(\$T8=/44YX+[0"
MTD!|sJLKVO'Z(R8>]C*+-H/O@/IOYB<\$8.VMGT!*]PW]Q+2! MKAX8H20#606(WGHZQNP&150^+839+G*0KH.9X%G#W0, M0%PO8C+WE0GG)
Q1*%(^3%\$?Q B/> ?1^805!@K08;H#DN1V2=2G7V+G M/HXP>?/IN"/38FJ9%#5&JHQQ?7QO&AD5FM-0">38%N(R)"4%CF&
@A"JKLBH(O(F6F);L"VO: ^J>+P1C-INS38J2 M1IB-G YGK1?5=IC2IQDM3Z@>7>,K;RT Y<1,%::@=|Q@XS">G6GE+O ^TF M2BUVU89!94EB&%
[Z\$&87E:HYFN-PV01M3)O9%@^K<"F#JK/5;)3B9&^%@/ MP^9-3XE A+9:A O!) ,M=P60;6STW5OQ!1R594M 8A,TVTA7 L9V2VR&T+ MIT 'D%36-
V/\$:F%8571#&#;.GC1*AM-L-WHM)M3)PB=-,|SNB0^BP%=[#8 M4F]F!>6H0DE!<=WBSP6\$3&B]VL V+XHJ NXB*GUEV!) ,WXS!2\$N\$V5O.S
MC=5*U.O^PKS #U@ B"*2J|27<4I%N>(-Z5GCN 7>...>-20@#JDD&GJ6X8, M&E<2, #1=3O?HKL-|E:?'D4\$! A0#% @ K8!F63;K MD5J|N0 \$.\$:!4 (!
! 7,! "%U8G0M,C R-# Y,S!28V%L M+GAM; %!+ 0(4 QO (*V 9ED=3G? 6T@ - ^?1 5 " M 9F! 0!Q=6)T+3(P,C0P.3,P7V1E9BYX;6Q02P\$"% ,4 "
"M@&99 H50 MOD>B !|P@! \$P @ #0 @ \$GR@# \$ <75B="TR, # (T ,#DS, %IL86(N M>@UL4\$! A0#% @ K8!F62DHTG.N2 >L4\$:!4 (! MH6P" "%U8G0M,C R-#
Y,S!2<^E+GAM; %!+!08 "P @ D# ""M0! " ! end XML 81 ea0219572-10q quantum htm.xml IDEA: XBRL DOCUMENT 0001758009 2024-01-012024-
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style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0">Note 1. Nature of the Organization and Business </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0"><i>Nature of Business</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0"><i>Corporate History</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0"></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify">Quantum Computing Inc. ("OCI" or the "Company") was formed in the State of Nevada on July 25, 2001, under its original name, Ticketcart, Inc., which was changed to Innovative Beverage Group Holdings, Inc. in 2009. The Company redomiciled to Delaware on February 22, 2018 and changed its name to Quantum Computing Inc. Effective July 20, 2018, the trading symbol for the Company's common stock, par value \$0.0001, on the OTC Market changed from "IBGH" to "QUBT". On July 15, 2021 the Company uplisted to The Nasdaq Stock Market LLC. On June 16, 2022, the Company merged with QPhoton, Inc. ("QPhoton"), a developer of quantum photonic systems and related technologies and applications.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0"><i>Nature of Business</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify">OCI is an American company utilizing integrated photonics and non-linear quantum optics to deliver quantum and ancillary products for high-performance computing applications based on patented and proprietary photonics technology. OCI's products are designed to operate at room temperature and at very low power levels beyond the capabilities of other systems in the market. Our core photonics technology enables the execution of a go-to-market strategy which emphasizes accessibility and affordability. Our quantum machines enable subject matter experts (SMEs) and end users to deliver critical business solutions today in working with highly complex optimization problems.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify">The Company initially focused on providing software tools and applications for several commercially available quantum computers. However, following the June 2022 merger with QPhoton and its associated intellectual property and engineering team, the Company now offers integrated high-performance quantum systems, ancillary products and services.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify">The core of our quantum offerings today is our Entropy Quantum Computing ("EQC") technology. We have built room-temperature, photonic quantum information processing systems underpinned by a series of patented and patent pending technologies. Our technology, supported by professional services through our "Quantum Solutions" offering, enables our clients to solve complex optimization problems. In addition, our engineering teams are using our leading-edge photonics technology to continue to enhance and further develop quantum LIDAR sensing and imaging systems, quantum-secured network solutions, and photonic chips.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"><i>Going Concern</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify">The accompanying unaudited condensed consolidated financial statements have been prepared on a going concern basis, which contemplates the continuity of operations, the realization of assets, and the satisfaction of liabilities in the normal course of business. Cash and cash equivalents on hand were \$3.1 million as of September 30, 2024. The Company has historically incurred losses and negative cash flows from operations. As of September 30, 2024, the Company also had an accumulated deficit of \$149.2 million and working capital of \$1.5 million. Furthermore, we have not achieved a level of sales adequate to support the Company's cost structure and may need to raise additional funds in the next 12 months by selling additional equity or incurring debt. It is management's opinion that these conditions raise substantial doubt about our

ability to continue as a going concern.</p><p>2018-07-200.00013100000-1492000001500000<p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Note 2. Significant Accounting Policies</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"><i>Basis of Presentation and Principles of Consolidation</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company prepares its consolidated financial statements in conformity with accounting principles generally accepted in the United States of America ("U.S. GAAP") as determined by the Financial Accounting Standards Board (the "FASB"), including Accounting Standards Codification ("ASC") 810, <i>Consolidation</i>. The accompanying unaudited condensed consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. The Company's fiscal year end is December 31.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Reclassifications</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Certain reclassifications have been made to the fiscal year 2023 audited consolidated financial statements to conform to the presentation in the three and nine months ended September 30, 2024. The reclassifications had no impact on consolidated net loss, total consolidated assets, total consolidated liabilities, or consolidated stockholders' equity.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Risk and Uncertainties</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company is subject to certain risks and uncertainties and believes changes in any of the following areas could have a material adverse effect on the Company's future consolidated financial position or consolidated results of operations or cash flows: new product development, including market receptivity; litigation or claims against the Company based on intellectual property, patent, product regulation or other factors; competition from other products; general economic conditions; the ability to attract and retain qualified employees; and, ultimately, to sustain profitable operations.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Use of Estimates</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">These unaudited condensed consolidated financial statements have been prepared in accordance with U.S. GAAP, which requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the unaudited condensed consolidated financial statements, and the reported amounts of revenues and expenses during the reporting period. Some of the more significant estimates required to be made by management include the valuation of goodwill and intangible assets, deferred tax assets, equity-based transactions and liquidity assessment. Actual results may differ from these estimates.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"><i>Cash and Cash Equivalents</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"><i>Highly liquid investments with a maturity of three months or less when purchased are considered to be cash equivalents. The Company maintains its cash in mutual funds and deposit and money market accounts with high quality financial institutions which, at times, may exceed federally insured limits. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million and \$2.1 million, respectively, in cash equivalents invested in mutual funds. The Company has not experienced any losses on these deposits and believes it is not exposed to significant credit risk on cash.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Revenue</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company recognizes revenue in accordance with ASC 606 - <i>Revenue from Contracts with Customers</i>, by analyzing contracts with its customers using a five-step approach:</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><table cellpadding="0" cellspacing="0" style="font: 10pt Times New Roman, Times, Serif; width: 100%; border-collapse: collapse"><tr style="vertical-align: top"><td style="width: 24px"></td><td style="width: 24px">1.</td><td style="text-align: justify">Identify the contract</td></tr><tr style="vertical-align: top"><td></td><td>2.</td><td>Identify the performance obligations</td></tr><tr style="vertical-align: top"><td></td><td>3.</td><td>Determine the transaction price</td></tr><tr style="vertical-align: top"><td></td><td>4.</td><td>Allocate the transaction price to the performance obligations</td></tr><tr style="vertical-align: top"><td></td><td>5.</td><td>Recognize revenue when performance obligations are satisfied</td></tr></table><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The revenue the Company has recognized in the nine months ended September 30, 2024 and 2023 were primarily derived from contracts to perform professional services. Revenue from time and materials-based contracts is recognized as the direct hours worked during the period times the contractual hourly rate, plus direct materials and other direct costs as appropriate, plus negotiated materials handling burdens, if any. Revenue from units-based contracts is recognized as the number of units delivered or performed during the period times the contractual unit price. Revenue from fixed price contracts is recognized as work is performed with estimated profits recorded on a percentage of completion basis. The Company has no cost-plus type contracts at this time.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company includes depreciation and amortization expenses in manufacturing overhead, which is a component of cost of revenue. However, at the present time manufacturing overhead, including depreciation and amortization expense related to production equipment, is not material and the primary components of cost of revenue are direct labor and direct materials, with a small amount of shipping expenses.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Accounts Receivable</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Accounts receivable consists of amounts due from customers for work performed on contracts. The Company records accounts receivable at their net realizable value. Periodically the Company evaluates its accounts receivable to establish a provision for credit losses, when deemed necessary, based on the history of past write-offs, collections and current credit conditions. The customer accounts receivable as of September 30, 2024 are considered not fully collectible and thus the Company has recorded a provision for credit losses of \$3.5 thousand; the customer accounts receivable as of December 31, 2023 are considered fully collectible.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Provision for Credit Losses</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company estimates losses on loans and other financial instruments in accordance with Accounting Standards Update ("ASU") 2016-13, Measurement of Credit Losses on Financial Instruments. ASU 2016-13 introduces the current expected credit losses ("CECL") methodology for estimating allowances for credit losses. The CECL framework requires the Company to measure all expected credit losses for financial assets held at the reporting date based on historical experience, current conditions and reasonable and supporting forecasts. Under CECL, the allowance for credit losses is measured as the difference between the financial asset's cost basis and the net amount expected to be collected on the financial asset. CECL allows us to use information about past events including historical loan loss experience, current conditions, and reasonable and supportable forecasts to assess the collectability of the financial assets. The receivables for financial assets as of September 30, 2024 and December 31, 2023 are not considered fully collectible and thus management has recorded a provision for credit losses. See Note 9, <i>Loan Receivable</i>, for additional information.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Inventory</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Inventory is stated at the lower of cost or net realizable value. Cost is determined on a standard cost basis which approximates actual cost on a first in-first out method. Lower of cost or net realizable value is evaluated by considering obsolescence, excessive levels of inventory, deterioration and other factors. Adjustments to reduce the cost of inventory to its net realizable value, if required, are made for estimated excess, obsolescence or impaired inventory and are charged to cost of revenue. Once the cost of the inventory is reduced, a new lower-cost basis for that inventory is established, and subsequent changes in facts and circumstances do not result in the restoration or increase in that newly established cost basis. Factors influencing these adjustments include changes in demand, product life cycle and development plans, component cost trends, product pricing, physical deterioration and quality issues. Revisions to these adjustments would be required if these factors differ from our estimates.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: center"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Operating Leases</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company determines if an arrangement is a lease at inception. Operating lease right-of-use ("ROU") assets are included in right-of-use assets, net on the consolidated balance sheets. The current and long-term components of operating lease liabilities are included in the current operating lease liabilities and noncurrent operating lease liabilities, respectively, on the consolidated balance sheets.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p></div>

Operating lease ROU assets and operating lease liabilities are recognized based on the present value of the future minimum lease payments over the lease term. As most of the Company's leases do not provide an implicit rate, and the Company uses an incremental borrowing rate based on the information available at the commencement date in determining the present value of future payments. Certain leases may include options to extend or terminate the lease. Lease expense for minimum lease payments is recognized on a straight-line basis over the lease term. Leases with an initial term of 12 months or less are not recorded on the consolidated balance sheet. All of our operating leases are comprised of office space leases, and as of September 30, 2024 and December 31, 2023, we had no finance leases.

Business Combinations and Valuation of Goodwill

We account for business combinations under the acquisition method of accounting. This method requires the recording of acquired assets and assumed liabilities at their acquisition date fair values. The excess of the purchase price over the fair value of assets acquired and liabilities assumed is recorded as goodwill. Results of operations related to business combinations are included prospectively beginning with the date of acquisition and transaction costs related to business combinations are recorded withing general and administrative expenses.

The Company reviews goodwill for impairment on an annual basis or whenever events or changes in circumstances indicate the carrying value may not be recoverable. The Company performs an annual impairment test by comparing the fair value of a reporting unit with its carrying amount. An impairment charge should be recognized for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. In addition, income tax effects from any tax-deductible goodwill carrying amount of the reporting unit should be considered when measuring the goodwill impairment loss, if applicable. The Company has determined that it has a single reporting unit for purposes of performing its goodwill impairment test. As the Company uses the market approach to assess impairment, its common stock price is an important component of the fair value calculation. If the Company's stock price continues to experience significant price and volume fluctuations, this will impact the fair value of the reporting unit and can lead to potential impairment in future periods. The Company performs its annual impairment test during the fourth quarter of each fiscal year. As of September 30, 2024, we had not identified any factors that indicated there was an impairment of our goodwill and determined that no additional impairment analysis was then required.

Property and Equipment

Property and equipment are stated at cost or contributed value. Depreciation of furniture, software and equipment is calculated using the straight-line method over their estimated useful lives, and leasehold improvements are amortized on a straight-line basis over the shorter of their estimated useful lives or the lease term. The cost and related accumulated depreciation of equipment retired or sold are removed from the accounts and any differences between the undepreciated amount and the proceeds from the sale are recorded as a gain or loss on sale of equipment. Maintenance and repairs are charged against expense as incurred.

Impairment of Long-Lived Assets

The Company has long-lived assets such as tangible property and equipment, identified intangible assets consisting of acquired patents and core technology. When events or changes in circumstances occur that could indicate the carrying value of long-lived assets may not be recoverable, the Company assesses recoverability by determining whether the undiscounted cash flows estimated to be generated by those assets are less than the carrying amounts of those assets. If the undiscounted cash flow is less, an impairment charge is recognized for the excess of the carrying amounts of these assets over the fair values. Fair values are determined by discounted future cash flows, appraisals or other methods.

During the three and nine months ended September 30, 2024 and 2023, the Company did not record any impairment from long-lived assets.

Fair Value of Financial Instruments

The carrying amount of certain financial instruments held by the Company, such as cash equivalents, accounts receivable, contract assets and liabilities, accounts payable, and accrued and other current liabilities, approximate fair value due to their short maturities. The carrying amount of the liabilities for the convertible preferred stock warrants represent their fair value. The carrying amounts of the Company's borrowings and lease liabilities approximate fair value due to the market interest rates that these obligations bear and interest rates currently available to the Company.

Fair value is defined as the exchange price that would be received for an asset or an exit price paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The fair value hierarchy defines a three-level valuation hierarchy for disclosure of fair value measurements as follows:

Level	Description
Level 1	Unadjusted quoted prices in active markets for identical assets or liabilities.
Level 2	Inputs other than quoted prices included within Level 1 that are observable, unadjusted quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the related assets or liabilities; and
Level 3	Unobservable inputs that are supported by little or no market activity for the related assets or liabilities.

The categorization of a financial instrument within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million of the \$3.1 million cash and cash equivalents and \$793 thousand of the \$2.1 million cash and cash equivalents, respectively, in Level 1 assets, comprised of U.S. Government mutual funds, and \$666 thousand and carrying value, respectively, for Level 3 liabilities, which are comprised of derivative and warrant liabilities. See Note 11, **Capital Stock - Warrants**, for a full discussion of the warrant liability.

Research and Development Cost

Research and development costs include costs directly attributable to the conduct of research and development programs, including the cost of services provided by outside contractors, acquiring work-in-progress intellectual property, development, and mandatory compliance fees and contractual obligations. All costs associated with research and development are expensed as incurred.

Software Development Cost

Software development costs incurred subsequent to the establishment of technological feasibility for software intended to be sold, licensed or otherwise marketed to customers will be capitalized, but development costs not meeting the criteria for capitalization are expensed as incurred. With respect to internal use software, the Company will capitalize such development costs incurred during the application development stage, but development costs incurred prior to that stage will be expensed as incurred. No amortization expense will be recorded until the software is ready for its intended use. To date the Company has not incurred any material capitalizable software development costs.

Stock-based Compensation

Stock-based compensation expense for expected-to-vest awards is valued under the single-option approach and amortized on a straight-line basis, accounting for actual pre-vesting forfeitures as they occur. We utilize the Black-Scholes pricing model in order to determine the fair value of stock-based option awards. The Black-Scholes pricing model requires various highly subjective assumptions including volatility, expected option life, and risk-free interest rate. The assumptions used in calculating the fair value of share-based payment awards represent management's best estimates. These estimates involve inherent uncertainties and the application of management judgment. If factors change and different assumptions are used, our stock-based compensation expense could be materially different in the future.

Income Taxes

Opt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company uses the asset and liability method of accounting for income taxes. Deferred tax assets and liabilities are recognized for the anticipated future tax consequences attributable to differences between the carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. Deferred tax expense or benefit is the result of changes in the deferred tax assets and liabilities. Valuation allowances are established when necessary to reduce deferred tax assets where, based upon the available evidence, management concludes that it is more-likely-than-not that the deferred tax assets will not be realized. Realization of deferred tax assets is also dependent upon future earnings, if any, the timing and amount of which are uncertain.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company records a liability for the uncertain tax positions taken or expected to be taken on the Company's tax return when it is more-likely-than-not that the tax position might be challenged despite the Company's belief that the tax return positions are fully supportable, and additional taxes will be due as a result. To the extent that the assessment of such tax positions changes, for example, based on the outcome of a tax audit, the change in estimate is recorded in the period in which the determination is made. The provision for income taxes includes the impact of provisions for uncertain tax positions.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Loss Per Share</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Basic net loss per common share is computed by dividing net loss by the weighted average number of common shares outstanding during the period. Diluted net loss per common share is computed by dividing net loss attributable to common stockholders by the weighted average number of common shares outstanding, plus the number of additional common shares that would have been outstanding if the common share equivalents had been issued (computed using the "If-Converted" method), unless the effect of such issuances would have been anti-dilutive.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Recently Issued Accounting Pronouncements</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">From time to time, new accounting pronouncements are issued by the FASB or other standard setting bodies that are adopted by the Company as of the specified effective date. Unless otherwise discussed, we believe that the impact of recently issued standards that are not yet effective will not have a material impact on our financial position or results of operations upon adoption. The Company has evaluated the recently implemented accounting standards and concluded that none currently apply to the Company.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"><i>Basis of Presentation and Principles of Consolidation</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company prepares its consolidated financial statements in conformity with accounting principles generally accepted in the United States of America ("U.S. GAAP") as determined by the Financial Accounting Standards Board (the "FASB"), including Accounting Standards Codification ("ASC") 810, <i>Consolidation</i>. The accompanying unaudited condensed consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. The Company's fiscal year end is December 31.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Reclassifications</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Certain reclassifications have been made to the fiscal year 2023 audited consolidated financial statements to conform to the presentation in the three and nine months ended September 30, 2024. The reclassifications had no impact on consolidated net loss, total consolidated assets, total consolidated liabilities, or consolidated stockholders' equity.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Risk and Uncertainties</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company is subject to certain risks and uncertainties and believes changes in any of the following areas could have a material adverse effect on the Company's future consolidated financial position or consolidated results of operations or cash flows: new product development, including market receptivity; litigation or claims against the Company based on intellectual property, patent, product regulation or other factors; competition from other products; general economic conditions; the ability to attract and retain qualified employees; and, ultimately, to sustain profitable operations.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"><i>Use of Estimates</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">These unaudited condensed consolidated financial statements have been prepared in accordance with U.S. GAAP, which requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the unaudited condensed consolidated financial statements, and the reported amounts of revenues and expenses during the reporting period. Some of the more significant estimates required to be made by management include the valuation of goodwill and intangible assets, deferred tax assets, equity-based transactions and liquidity assessment. Actual results may differ from these estimates.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"><i>Cash and Cash Equivalents</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Highly liquid investments with a maturity of three months or less when purchased are considered to be cash equivalents. The Company maintains its cash in mutual funds and deposit and money market accounts with high quality financial institutions which, at times, may exceed federally insured limits. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million and \$2.1 million, respectively, in cash equivalents invested in mutual funds. The Company has not experienced any losses on these deposits and believes it is not exposed to significant credit risk on cash. </p>23000002100000<p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><i>Revenue</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company recognizes revenue in accordance with ASC 606 - <i>Revenue from Contracts with Customers</i>, by analyzing contracts with its customers using a five-step approach: </p><table cellpadding="0" cellspacing="0" style="font: 10pt Times New Roman, Times, Serif; width: 100%; border-collapse: collapse"> <tr style="vertical-align: top"> <td style="width: 24px"> </td> <td style="width: 24px">1.</td> <td style="text-align: justify">Identify the contract</td> <tr style="vertical-align: top"> <td> </td> <td>2.</td> <td style="text-align: justify">Identify the performance obligations</td> <tr style="vertical-align: top"> <td> </td> <td>3.</td> <td style="text-align: justify">Determine the transaction price</td> <tr style="vertical-align: top"> <td> </td> <td>4.</td> <td style="text-align: justify">Allocate the transaction price to the performance obligations</td> <tr style="vertical-align: top"> <td> </td> <td>5.</td> <td style="text-align: justify">Recognize revenue when performance obligations are satisfied</td> </tr> </table><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The revenue the Company has recognized in the nine months ended September 30, 2024 and 2023 were primarily derived from contracts to perform professional services. Revenue from time and materials-based contracts is recognized as the direct hours worked during the period times the contractual hourly rate, plus direct materials and other direct costs as appropriate, plus negotiated materials handling burdens, if any. Revenue from units-based contracts is recognized as the number of units delivered or performed during the period times the contractual unit price. Revenue from fixed price contracts is recognized as work is performed with estimated profits recorded on a percentage of completion basis. The Company has no cost-plus type contracts at this time.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company includes depreciation and amortization expenses in manufacturing overhead, which is a component of cost of revenue. However, at the present time manufacturing overhead, including depreciation and amortization expense related to production equipment, is not material and the primary components of cost of revenue are direct labor and direct materials, with a small amount of shipping expenses.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Accounts Receivable</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Accounts receivable consists of amounts due from customers for work performed on contracts. The Company records accounts receivable at their net realizable value. Periodically the Company evaluates its accounts receivable to establish a provision for credit losses, when deemed necessary, based on the history of past write-offs, collections and current credit conditions. The customer accounts receivable as of September 30, 2024 are considered not fully collectible and thus the Company has recorded a provision for credit losses of \$3.5 thousand; the customer accounts receivable as of December 31, 2023 are considered fully collectible.</p>3500<p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company estimates losses on loans and other financial instruments in accordance with Accounting Standards Update ("ASU") 2016-13, Measurement of Credit Losses on Financial Instruments. ASU 2016-13 introduces the current expected credit losses ("CECL") methodology for estimating allowances for credit losses. The CECL framework requires the Company to measure all expected credit losses for financial assets held at the reporting date based on historical experience, current conditions and reasonable and supporting forecasts. Under CECL, the allowance for credit losses is measured as the difference between the financial asset's cost basis and the net amount expected to be collected on the financial asset. CECL allows us to use information about past events including historical loan loss experience, current conditions, and reasonable and supportable forecasts to assess the collectability of the financial assets. The receivables for financial assets as of September 30, 2024 and December 31, 2023 are not considered fully collectible and thus management has recorded a provision for credit losses. See Note 9, <i>Loan Receivable</i>, for additional information.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Inventory</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Inventory is stated at the lower of cost or net realizable value. Cost is determined on a standard cost basis which approximates actual cost

on a first-in-first out method. Lower of cost or net realizable value is evaluated by considering obsolescence, excessive levels of inventory, deterioration and other factors. Adjustments to reduce the cost of inventory to its net realizable value, if required, are made for estimated excess, obsolescence or impaired inventory and are charged to cost of revenue. Once the cost of the inventory is reduced, a new lower-cost basis for that inventory is established, and subsequent changes in facts and circumstances do not result in the restoration or increase in that newly established cost basis. Factors influencing these adjustments include changes in demand, product life cycle and development plans, component cost trends, product pricing, physical deterioration and quality issues. Revisions to these adjustments would be required if these factors differ from our estimates.

Operating Leases

The Company determines if an arrangement is a lease at inception. Operating lease right-of-use ("ROU") assets are included in right-of-use assets, net on the consolidated balance sheets. The current and long-term components of operating lease liabilities are included in the current operating lease liabilities and noncurrent operating lease liabilities, respectively, on the consolidated balance sheets.

Operating lease ROU assets and operating lease liabilities are recognized based on the present value of the future minimum lease payments over the lease term. As most of the Company's leases do not provide an implicit rate, and the Company uses an incremental borrowing rate based on the information available at the commencement date in determining the present value of future payments. Certain leases may include options to extend or terminate the lease. Lease expense for minimum lease payments is recognized on a straight-line basis over the lease term. Leases with an initial term of 12 months or less are not recorded on the consolidated balance sheet. All of our operating leases are comprised of office space leases, and as of September 30, 2024 and December 31, 2023, we had no finance leases.

Business Combinations and Valuation of Goodwill

We account for business combinations under the acquisition method of accounting. This method requires the recording of acquired assets and assumed liabilities at their acquisition date fair values. The excess of the purchase price over the fair value of assets acquired and liabilities assumed is recorded as goodwill. Results of operations related to business combinations are included prospectively beginning with the date of acquisition and transaction costs related to business combinations are recorded withing general and administrative expenses.

The Company reviews goodwill for impairment on an annual basis or whenever events or changes in circumstances indicate the carrying value may not be recoverable. The Company performs an annual impairment test by comparing the fair value of a reporting unit with its carrying amount. An impairment charge should be recognized for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. In addition, income tax effects from any tax-deductible goodwill carrying amount of the reporting unit should be considered when measuring the goodwill impairment loss, if applicable. The Company has determined that it has a single reporting unit for purposes of performing its goodwill impairment test. As the Company uses the market approach to assess impairment, its common stock price is an important component of the fair value calculation. If the Company's stock price continues to experience significant price and volume fluctuations, this will impact the fair value of the reporting unit and can lead to potential impairment in future periods. The Company performs its annual impairment test during the fourth quarter of each fiscal year. As of September 30, 2024, we had not identified any factors that indicated there was an impairment of our goodwill and determined that no additional impairment analysis was then required.

Property and Equipment

Property and equipment are stated at cost or contributed value. Depreciation of furniture, software and equipment is calculated using the straight-line method over their estimated useful lives, and leasehold improvements are amortized on a straight-line basis over the shorter of their estimated useful lives or the lease term. The cost and related accumulated depreciation of equipment retired or sold are removed from the accounts and any differences between the un depreciated amount and the proceeds from the sale are recorded as a gain or loss on sale of equipment. Maintenance and repairs are charged against expense as incurred.

Impairment of Long-Lived Assets

The Company has long-lived assets such as tangible property and equipment, identified intangible assets consisting of acquired patents and core technology. When events or changes in circumstances occur that could indicate the carrying value of long-lived assets may not be recoverable, the Company assesses recoverability by determining whether the undiscounted cash flows estimated to be generated by those assets are less than the carrying amounts of those assets. If the undiscounted cash flow is less, an impairment charge is recognized for the excess of the carrying amounts of these assets over the fair values. Fair values are determined by discounted future cash flows, appraisals or other methods.

During the three and nine months ended September 30, 2024 and 2023, the Company did not record any impairment from long-lived assets.

Fair Value of Financial Instruments

The carrying amount of certain financial instruments held by the Company, such as cash equivalents, accounts receivable, contract assets and liabilities, accounts payable, and accrued and other current liabilities, approximate fair value due to their short maturities. The carrying amount of the liabilities for the convertible preferred stock warrants represent their fair value. The carrying amounts of the Company's borrowings and lease liabilities approximate fair value due to the market interest rates that these obligations bear and interest rates currently available to the Company.

Fair value is defined as the exchange price that would be received for an asset or an exit price paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The fair value hierarchy defines a three-level valuation hierarchy for disclosure of fair value measurements as follows:

Level 1	Inputs that are observable, unadjusted quoted prices in active markets for identical assets or liabilities;
Level 2	Inputs other than quoted prices included within Level 1 that are observable, unadjusted quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the related assets or liabilities; and
Level 3	Unobservable inputs that are supported by little or no market activity for the related assets or liabilities.

The categorization of a financial instrument within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. As of September 30, 2024 and December 31, 2023, the Company had \$2.3 million of the \$3.1 million cash and cash equivalents and \$793 thousand of the \$2.1 million cash and cash equivalents, respectively, in Level 1 assets, comprised of U.S. Government mutual funds, and \$666 thousand and carrying value, respectively, for Level 3 liabilities, which are comprised of derivative and warrant liabilities. See Note 11, **Capital Stock - Warrants**, for a full discussion of the warrant liability.

Research and Development Cost

Research and development costs include costs directly attributable to the conduct of research and development programs, including the cost of services provided by outside contractors, acquiring work-in-progress intellectual property, development, and mandatory compliance fees and contractual obligations. All costs associated with research and development are expensed as incurred.

Software Development Cost

Software development costs incurred subsequent to the establishment of technological feasibility for software intended to be sold, licensed or otherwise marketed to customers will be capitalized, but development costs not meeting the criteria for capitalization are expensed as incurred. With respect to internal use software, the Company will capitalize such development costs incurred during the application development stage, but development costs incurred prior to that stage will be expensed as incurred. No amortization expense will be recorded until the software is ready for its intended use. To date the Company has not incurred any material capitalizable software development costs.

Stock-based Compensation

Stock-based compensation expense for expected-to-vest awards is valued under the single-option approach and amortized on a straight-line basis, accounting for actual pre-vesting forfeitures as they occur. We utilize the Black-Scholes pricing model in order to determine the fair value of stock-based option awards. The Black-Scholes pricing model requires various highly subjective assumptions including volatility, expected option life, and risk-free interest rate. The assumptions used in calculating the fair value of share-based payment awards represent management's best estimates. These estimates involve inherent uncertainties and the application of management judgment. If factors change and different assumptions are used, our stock-based compensation expense could be materially different in the future.

Income Taxes

The Company uses the asset and liability method of accounting for income taxes. Deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to

differences between the carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. Deferred tax expense or benefit is the result of changes in the deferred tax assets and liabilities. Valuation allowances are established when necessary to reduce deferred tax assets where, based upon the available evidence, management concludes that it is more-likely-than-not that the deferred tax assets will not be realized. Realization of deferred tax assets is also dependent upon future earnings, if any, the timing and amount of which are uncertain.

The Company records a liability for the uncertain tax positions taken or expected to be taken on the Company's tax return when it is more-likely-than-not that the tax position might be challenged despite the Company's belief that the tax return positions are fully supportable, and additional taxes will be due as a result. To the extent that the assessment of such tax positions changes, for example, based on the outcome of a tax audit, the change in estimate is recorded in the period in which the determination is made. The provision for income taxes includes the impact of provisions for uncertain tax positions.

Loss Per Share

Basic net loss per common share is computed by dividing net loss by the weighted average number of common shares outstanding during the period. Diluted net loss per common share is computed by dividing net loss attributable to common stockholders by the weighted average number of common shares outstanding, plus the number of additional common shares that would have been outstanding if the common share equivalents had been issued (computed using the "If-Converted" method), unless the effect of such issuances would have been anti-dilutive.

Recently Issued Accounting Pronouncements

From time to time, new accounting pronouncements are issued by the FASB or other standard setting bodies that are adopted by the Company as of the specified effective date. Unless otherwise discussed, we believe that the impact of recently issued standards that are not yet effective will not have a material impact on our financial position or results of operations upon adoption. The Company has evaluated the recently implemented accounting standards and concluded that none currently apply to the Company.

Note 3. Net Loss per Common Share

The following table sets forth the computation of basic and diluted loss per share (in thousands, except per share data):

Three Months Ended	September 30,	September 30,
	2024	2023
Net loss	(5,675)	(17,305)
Less: Series A convertible preferred stock dividends	(6,841)	(20,395)
Net loss attributable to common stockholders - basic and diluted	(12,516)	(37,700)
Weighted average shares used in computing net loss per common share - basic and diluted	93,048	71,588
Net loss per common share - basic and diluted	\$(0.14)	\$(0.53)

Times New Roman, Times, Serif; font-size: 10pt">\$</td> <td style="border-bottom: black 4.5pt double; text-align: right">(0.33</td> <td></td></tr> </table> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify">Net loss per share is based on the weighted average number of the Company's common shares and common share equivalents outstanding during the period.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify">In periods with a reported net loss, the effect of anti-dilutive stock options, unvested restricted common stock and warrants are excluded and diluted loss per share is equal to basic loss per share. Due to a net loss in the three and nine months ended September 30, 2024 and 2023, there were therefore no dilutive securities and hence basic and diluted loss per share were the same. The following is a summary of the weighted average common stock equivalents for the securities outstanding during the respective periods that have been excluded from the computation of diluted net loss per common share, as their effect would be anti-dilutive (in thousands):</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: justify"> <p> <table cellpadding="0" cellspacing="0" style="border-collapse: collapse; width: 100%; font: 10pt Times New Roman, Times, Serif"> <tr style="vertical-align: bottom"> <td> </td> <td style="padding-bottom: 1.5pt"> </td> <td colspan="6" style="text-align: center; border-bottom: Black 1.5pt solid"><p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: center">Three Months Ended</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: center">September 30,</p></td> <td style="padding-bottom: 1.5pt"> </td> <td style="padding-bottom: 1.5pt"> </td> <td colspan="6" style="text-align: center; border-bottom: Black 1.5pt solid"><p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: center">Nine Months Ended</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: center">September 30,</p></td> <td style="padding-bottom: 1.5pt"> </td></tr> <tr style="vertical-align: bottom"> <td> </td> <td style="font-weight: bold; padding-bottom: 1.5pt"> </td> <td colspan="2" style="font-weight: bold; text-align: center; border-bottom: Black 1.5pt solid">2024</td> <td style="padding-bottom: 1.5pt; font-weight: bold"> </td> <td colspan="2" style="font-weight: bold; text-align: center; border-bottom: Black 1.5pt solid">2023</td> <td style="padding-bottom: 1.5pt; font-weight: bold"> </td> <td colspan="2" style="font-weight: bold; text-align: center; border-bottom: Black 1.5pt solid">2024</td> <td style="padding-bottom: 1.5pt; font-weight: bold"> </td> <td colspan="2" style="font-weight: bold; text-align: center; border-bottom: Black 1.5pt solid">2023</td> <td style="padding-bottom: 1.5pt; font-weight: bold"> </td> <td colspan="2" style="font-weight: bold; text-align: center; border-bottom: Black 1.5pt solid">2024</td> <td style="padding-bottom: 1.5pt; font-weight: bold"> </td> <td colspan="2" style="font-weight: bold; text-align: center; border-bottom: Black 1.5pt solid">2023</td> <td style="padding-bottom: 1.5pt; font-weight: bold"> </td></tr> <tr style="vertical-align: bottom; background-color: rgb(204,238,255)"> <td style="width: 52%; text-align: center">Warrants</td> <td style="width: 1%"> </td> <td style="width: 1%; text-align: left"> </td> <td style="width: 9%; text-align: right">2,212</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">5,973</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">2,538</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">6,092</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">12,407</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">13,069</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">12,882</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">11,410</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">Unvested restricted common stock</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">2,997</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">1,783</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">771</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">Total potentially dilutive shares</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">17,616</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">20,825</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">18,417</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">18,273</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">18,273</td> <td style="width: 1%; text-align: left"> </td> <td style="width: 1%"> </td> <td style="width: 9%; text-align: right">As all potentially dilutive securities are anti-dilutive as of September 30, 2024 and 2023, diluted net loss per share is the same as basic net loss per share for each period.</p>The following table sets forth the computation of basic and diluted net loss per share (in thousands, except per share data):<table cellpadding="0" cellspacing="0" style="font: 10pt Times New Roman, Times, Serif; width: 100%; border-collapse: collapse"> <tr style="vertical-align: bottom"> <td> </td> <td> </td> <td colspan="6" style="border-bottom: black 1.5pt solid"> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: center">Three Months Ended</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: center">September 30,</p></td> <td> </td> <td> </td> <td colspan="6" style="border-bottom: black 1.5pt solid"> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: center">Nine Months Ended</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: Opt 0; text-align: center">September 30,</p></td> <td> </td> <td> </td> <td colspan="6" style="border-bottom: black 1.5pt solid; text-align: center">2024</td> <td> </td> <td> </td> <td colspan="2" style="border-bottom: black 1.5pt solid; text-align: center">2023</td> <td> </td> <td> </td> <td colspan="2" style="border-bottom: black 1.5pt solid; text-align: center">2024</td> <td> </td> <td> </td> <td colspan="2" style="border-bottom: black 1.5pt solid; text-align: center">2023</td> <td> </td> <td> </td> <td colspan="2" style="border-bottom: black 1.5pt solid; text-align: center">2024</td> <td> </td> <td> </td> <td colspan="2" style="border-bottom: black 1.5pt solid; text-align: center">2023</td> <td> </td> <td> </td> <td colspan="2" style="border-bottom: black 1.5pt solid; text-align: center">2024</td> <td> </td> <td> </td> <td colspan="2" style="border-bottom: black 1.5pt solid; text-align: center">2023</td> <td> <

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5. Intangible Assets and Goodwill

As a result of the merger with QPhoton in June 2022 (the "QPhoton Merger"), the Company has the following amounts related to intangible assets (in thousands):

	September 30, 2024	December 31, 2023
Gross Carrying Amount	3,251	2,528
Accumulated Amortization	(723)	(1,009)
Net Carrying Amount	2,528	1,519

Non-compete agreement with founder: 3,251

Website domain name and trademark: 1,009

Technology and licensed patents: 12,731

Amortization expense for the three and nine months ended September 30, 2024 and 2023 was approximately \$780 thousand and \$2.3 million, respectively. The Company expects future amortization expense to be the following (in thousands):

	2024 (remaining three months)	2025	2026	2027	2028	2029
Amortization	776	2,472	2,026	1,903	1,819	1,748

Thereafter: 1,748

The Company recorded goodwill resulting from the QPhoton Merger, calculated as the difference between the total purchase price and the value of tangible and intangible assets acquired less the liabilities assumed. The Company recorded goodwill of \$55.6 million resulting from the QPhoton Merger.

The Company considered the intangible assets and goodwill for indicators of impairment as of September 30, 2024 and concluded there were no indicators of impairment at that time.

As a result of the merger with QPhoton in June 2022 (the "QPhoton Merger"), the Company has the following amounts related to intangible assets (in thousands):

	September 30, 2024	December 31, 2023
Gross Carrying Amount	3,251	2,528
Accumulated Amortization	(723)	(1,009)
Net Carrying Amount	2,528	1,519

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2023, respectively, and \$214 thousand and \$203 thousand during the nine months ended September 30, 2024 and 2023, respectively, using useful lives of the Company's long-lived assets as follows:

Estimated Useful Life (Years)	Computer and laboratory equipment	Furniture and fixtures	Software	Leasehold improvements
5	4	7	3	
2024 (remaining three months)	88%	9%	2025	2027
2026			591	
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Note 7. Operating Leases

As of September 30, 2024, the Company has use of space in three different locations, Hoboken, NJ, Tempe, AZ, and Arlington, VA, under lease or membership agreements, which expire at various dates through November 30, 2028. The Company's leases do not provide an implicit rate, and the rates implicit in our leases are not readily determinable. Therefore, the Company uses its incremental borrowing rate as the discount rate when measuring operating lease assets and liabilities. The incremental borrowing rate represents an estimate of the interest rate the Company would incur at lease commencement to borrow an amount equal to the lease payments on a collateralized basis over the term of a lease. The Company's leases all contain options to extend or renew the lease or membership term.

The table below reconciles the undiscounted future minimum lease payments under these operating leases to the total operating lease liabilities recognized on the consolidated balance sheet as of September 30, 2024 (in thousands):

Year	Lease Payments	Present value of operating lease liabilities	Long-term operating lease liabilities
2024	88%	9%	2025
2026			591
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Less: Imputed interest

2024 (remaining three months)

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style="width: 1%; font: 10pt Times New Roman, Times, Serif; text-align: left;">\$</td><td style="width: 9%; font: 10pt Times New Roman, Times, Serif; text-align: right;">8,250</td><td style="width: 1%; font: 10pt Times New Roman, Times, Serif; text-align: left;"></td><td style="width: 1%; font: 10pt Times New Roman, Times, Serif;"></td><td style="width: 1%; font: 10pt Times New Roman, Times, Serif; text-align: left;">\$</td><td style="width: 9%; font: 10pt Times New Roman, Times, Serif; text-align: right;">2,063</td><td style="width: 1%; font: 10pt Times New Roman, Times, Serif; text-align: left;"></td></tr><tr style="vertical-align: bottom; background-color: White"><td style="font: 10pt Times New Roman, Times, Serif; text-align: left; padding-bottom: 1.5pt">Remaining unamortized debt issuance costs</td><td style="font: 10pt Times New Roman, Times, Serif; padding-bottom: 1.5pt"></td><td style="border-bottom: Black 1.5pt solid; font: 10pt Times New Roman, Times, Serif; text-align: left"></td><td style="border-bottom: Black 1.5pt solid; font: 10pt Times New Roman, Times, Serif; text-align: right">(1,736</td><td style="padding-bottom: 1.5pt; font: 10pt Times New Roman, Times, Serif; text-align: left"></td><td style="font: 10pt Times New Roman, Times, Serif; padding-bottom: 1.5pt"></td><td style="border-bottom: Black 1.5pt solid; font: 10pt Times New Roman, Times, Serif; text-align: left"></td><td style="border-bottom: Black 1.5pt solid; font: 10pt Times New Roman, Times, Serif; text-align: right">(138</td><td style="padding-bottom: 1.5pt; font: 10pt Times New Roman, Times, Serif; text-align: left"></td></tr><tr style="vertical-align: bottom; background-color: rgb(204,238,255)"><td style="font: 10pt Times New Roman, Times, Serif; text-align: left; padding-bottom: 4pt">Financial liabilities, net of issuance costs</td><td style="font: 10pt Times New Roman, Times, Serif; padding-bottom: 4pt"></td><td style="border-bottom: Black 4pt double; font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td><td style="border-bottom: Black 4pt double; font: 10pt Times New Roman, Times, Serif; text-align: right">6,514</td><td style="padding-bottom: 4pt; font: 10pt Times New Roman, Times, Serif; text-align: left"></td><td style="font: 10pt Times New Roman, Times, Serif; padding-bottom: 4pt"></td><td style="border-bottom: Black 4pt double; font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td><td style="border-bottom: Black 4pt double; font: 10pt Times New Roman, Times, Serif; text-align: right">1,925</td><td style="padding-bottom: 4pt; font: 10pt Times New Roman, Times, Serif; text-align: left"></td></tr><tr style="vertical-align: bottom; background-color: White"><td style="padding-bottom: 4pt"></td><td style="padding-bottom: 4pt"></td><td style="border-bottom: Black 4pt double; text-align: left"></td><td style="border-bottom: Black 4pt double; text-align: right"></td><td style="padding-bottom: 4pt; text-align: left"></td><td style="padding-bottom: 4pt"></td><td style="border-bottom: Black 4pt double; text-align: left"></td><td style="border-bottom: Black 4pt double; text-align: right"></td><td style="padding-bottom: 4pt; text-align: left"></td></tr><tr style="vertical-align: bottom; background-color: rgb(204,238,255)"><td style="font: 10pt Times New Roman, Times, Serif; text-align: left; padding-bottom: 4pt">Derivative liability</td><td style="font: 10pt Times New Roman, Times, Serif;"></td><td style="font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td><td style="font: 10pt Times New Roman, Times, Serif; text-align: right">666</td><td style="font: 10pt Times New Roman, Times, Serif; text-align: left"></td><td style="font: 10pt Times New Roman, Times, Serif;"></td><td style="font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td><td style="font: 10pt Times New Roman, Times, Serif; text-align: right"></div></td><td style="font: 10pt Times New Roman, Times, Serif; text-align: left"></td></tr></table><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0; text-align: justify">Additionally, the Company has accrued interest payable of \$122 thousand and \$14 thousand as of September 30, 2024 and December 31, 2023, respectively, which was included in accrued expenses.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Secured Promissory Note</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>On August 6, 2024, the Company entered into a Securities Purchase Agreement (the "Secured SPA") with Streeterville Capital, LLC ("Streeterville"), pursuant to which the Company issued and sold to Streeterville a Secured Convertible Promissory Note (the "Streeterville Convertible Note") in the original principal amount of \$8.25 million. The principal amount includes an original issue discount of \$750 thousand. Streeterville paid \$7.5 million in cash for the Streeterville Convertible Note. The Streeterville Convertible Note accrues interest at a rate of 10% per annum and has a maturity date of February 6, 2026, unless earlier prepaid, redeemed or accelerated in accordance with its terms prior to such date. The Company intends to use the net proceeds from the sale of the Streeterville Convertible Note primarily for general working capital purposes, including for (i) operations as the Company increases its sales and marketing efforts; (ii) capital expenditures in outfitting its chip fabrication facility in Tempe, AZ; and (iii) for any other planned or unplanned expenditures that might arise in support of the Company's business plan. Ascendant Capital Markets, LLC served as the placement agent on the transaction and received a fee of \$450 thousand, and the Company recognized \$55 thousand in other issuance costs, primarily for legal services.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Streeterville Convertible Note is secured by all of the Company's tangible and intangible assets, including intellectual property, pursuant to that certain Security Agreement (the "Security Agreement") and IP Security Agreement (the "IP Security Agreement"), each entered into with Streeterville on August 6, 2024. In addition, the Company's wholly-owned subsidiaries, QPhoton, LLC, a Delaware limited liability company, Qubittech International, Inc., a Delaware corporation, Qubittech, Inc., a Delaware corporation, and QI Solutions, Inc., a Delaware corporation (collectively, the "Guarantors"), provided a guarantee (the "Guaranty"), dated as of August 6, 2024, of the Company's obligations to Streeterville under the Streeterville Convertible Note and the other transaction documents.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Beginning on February 6, 2025, Streeterville has the right to redeem up to \$750,000 of the Streeterville Convertible Note per calendar month. The Company may pay such redemption amounts in cash, by converting such applicable redemption amount into shares of common stock at the applicable Conversion Price (as defined below) at such time, or in any combination of cash and shares of common stock, provided that the Company is required to pay any redemption amounts in cash under certain circumstances set forth in the Streeterville Convertible Note and that the payment of any redemption amount or portion thereof in cash is subject to an 10% premium.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Beginning on the earlier of: (a) February 6, 2025, and (b) the effectiveness of a registration statement registering the Conversion Shares (as defined below), Streeterville may convert all or any portion of the outstanding balance of the Streeterville Convertible Note into shares ("Conversion Shares") of the Company's common stock on any trading day (and the following trading day) on which any intraday trading bid price of the Company's common stock is 8% greater than the closing trade price on the previous trading day or at any time following an event of default, at a conversion price equal to 92% of the average of the two lowest daily volume weighted average prices of the Company's common stock during the eight trading day period prior to the respective conversion date (the "Conversion Price"), subject to anti-dilution adjustments and provided that Streeterville may not request any conversion of the Streeterville Convertible Note to the extent that such conversion would cause Streeterville (together with its affiliates) to beneficially own shares of Common Stock exceeding 4.99% (or 9.99% if the Market Capitalization, as defined below, is less than \$10 million) of the number of shares of Common Stock outstanding on such date. For the ownership limitation, "Market Capitalization" means a number equal to (a) the average volume weighted average price of the Company's common stock for the immediately preceding 15 trading days, multiplied by (b) the aggregate number of outstanding shares of common stock as reported on Company's most recently filed Form 10-Q or Form 10-K or as reported to Nasdaq in a subsequent shares outstanding change form. Absent an uncured event of default, as set forth in the Streeterville Convertible Note, Streeterville agreed to limit its aggregate sales of Conversion Shares on the open market in any given calendar week to 10% of the weekly trading volume of the Company's common stock on our principal trading market (Nasdaq) for such week. Upon evaluation, the Company determined that the conversion features inherent in the Streeterville Convertible Note meet the definition of a derivative liability (the "Streeterville Derivative Liability") covered under the ASC topic 815, Derivatives and Hedging. Applying ASC 820, Fair Value Measurement, the initial fair value of the Streeterville Derivative Liability is \$666 thousand, which will be mark-to-market adjusted on a quarterly basis and accreted as interest expense using the effective interest rate method while the Streeterville Convertible Note is outstanding.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">In addition to the beneficial ownership limitations provided in the Streeterville Convertible Note, the sum of the number of shares of the Company's common stock that the Company may issue to Streeterville under the Secured SPA, the Streeterville Convertible Note and any related documents without stockholder approval may not exceed the number of shares it could so issue pursuant to Nasdaq Listing Rule 5635(d) (the "Share Cap"), unless shareholder approval (the "Approval") to exceed such limitation is obtained by the Company. The Company is required, under the Secured SPA to obtain the Approval by February 2, 2025. If the Company does not obtain the Approval by such date, it must continue seeking the Approval every 90 days until the Approval is obtained. If the total cumulative number of Conversion Shares that the Company issues to Streeterville equals the Share Cap and the Company has not obtained the Approval, any remaining outstanding balance of the Streeterville Convertible Note must be repaid in cash.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Streeterville Convertible Note provides for customary events of default (each as defined in the Streeterville Convertible Note, an "Event of Default"), including, among other things, the event of nonpayment of principal, interest, fees or other amounts, a representation or warranty proving to have been incorrect when made, failure to perform or observe covenants within a specified cure period, a cross-default to certain other indebtedness and material agreements of the Company, and the occurrence of a bankruptcy, insolvency or similar event affecting the Company. Upon the occurrence of an Event of Default that is deemed a "Major Trigger Event" as defined in the Streeterville Convertible Note, Streeterville may increase the outstanding balance of the Streeterville Convertible Note by 10%, and upon the occurrence of an Event of Default that is deemed a "Minor Trigger Event" as defined in the Streeterville Convertible Note, Streeterville may increase the outstanding balance of the Streeterville Convertible Note by 5%. Streeterville can exercise its right to increase the outstanding balance upon a Major or Minor Trigger Event three times each. Upon the occurrence of an Event of Default, Streeterville may declare all amounts owed under the Streeterville Convertible Note immediately due and payable. In addition, upon the occurrence of an Event of Default, upon the election of Streeterville, interest shall begin accruing on the outstanding balance of the Streeterville Convertible Note from the date of the Event of Default equal to the lesser of 15% per annum and the maximum rate allowable under law.</p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Unsecured Promissory Note</i></p><p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"></p></div>

**text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">On September 23, 2022, the Company entered into a Note Purchase Agreement (the "Streeterville Unsecured NPA") with Streeterville, pursuant to which Streeterville purchased an unsecured promissory note (the "Streeterville Unsecured Note") in the initial principal amount of \$8.25 million. The Note bore interest at 10% per annum, had a maturity date of 18 months from the date of its issuance and carried an original issue discount of \$750 thousand, which is included in the principal balance of the Streeterville Unsecured Note.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Beginning on March 23, 2023, Streeterville had the right to redeem up to \$750 thousand of the outstanding balance of the Streeterville Unsecured Note per month ("Redemption Amount") by providing written notice to the Company ("Redemption Notice"). The Company paid the applicable Redemption Amount in cash to Streeterville within three trading days of the Company's receipt of any such Redemption Notice. As of September 30, 2024, Streeterville has redeemed the full principal amount of the Streeterville Unsecured Note. There was an outstanding balance of \$1.9 million as of December 31, 2023. As of September 30, 2024, there was no outstanding balance and the Company has no further obligations with respect to the Streeterville Unsecured NPA or Streeterville Unsecured Note.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">For a full discussion of the terms and conditions of the Streeterville Unsecured Note, see the Company's Amendment No. 1 to its Annual Report on Form 10-K for the year ended December 31, 2023.</p>The Company has the following amounts related to financial and derivative liabilities at the dates indicated (in thousands):<table cellpadding="0" cellspacing="0" style="border-collapse: collapse; width: 100%; font: 11pt Calibri, Helvetica, Sans-Serif"> <tr style="vertical-align: bottom"> <td style="font: bold 10pt Times New Roman, Times, Serif; padding-bottom: 1.5pt"> </td> <td style="font: bold 10pt Times New Roman, Times, Serif; padding-bottom: 1.5pt">September 30,
 2024</td> <td style="padding-bottom: 1.5pt; font: bold 10pt Times New Roman, Times, Serif"> </td> <td style="font: bold 10pt Times New Roman, Times, Serif; padding-bottom: 1.5pt"> </td> <td colspan="2" style="font: bold 10pt Times New Roman, Times, Serif; text-align: center; border-bottom: Black 1.5pt solid">September 30,
 2023</td> <td style="padding-bottom: 1.5pt; font: bold 10pt Times New Roman, Times, Serif"> </td> <td style="padding-bottom: 1.5pt; font: bold 10pt Times New Roman, Times, Serif; text-align: left">Remaining loan balances</td> <td style="width: 1%; font: 10pt Times New Roman, Times, Serif"> </td> <td style="width: 1%; font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td> <td style="width: 9%; font: 10pt Times New Roman, Times, Serif; text-align: right">8,250</td> <td style="width: 1%; font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <td style="width: 1%; font: 10pt Times New Roman, Times, Serif"> </td> <td style="width: 1%; font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td> <td style="width: 9%; font: 10pt Times New Roman, Times, Serif; text-align: right">2,063</td> <td style="width: 1%; font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <tr style="vertical-align: bottom; background-color: White"> <td style="font: 10pt Times New Roman, Times, Serif; text-align: left; padding-bottom: 1.5pt">Remaining unamortized debt issuance costs</td> <td style="font: 10pt Times New Roman, Times, Serif; padding-bottom: 1.5pt"> </td> <td style="border-bottom: Black 1.5pt solid; font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <td style="border-bottom: Black 1.5pt solid; font: 10pt Times New Roman, Times, Serif; text-align: right">(1,736</td> <td style="padding-bottom: 1.5pt; font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <td style="border-bottom: Black 1.5pt solid; font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <td style="border-bottom: Black 1.5pt solid; font: 10pt Times New Roman, Times, Serif; text-align: right">(138</td> <td style="padding-bottom: 1.5pt; font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <tr style="vertical-align: bottom; background-color: rgb(204,238,255)"> <td style="font: 10pt Times New Roman, Times, Serif; text-align: left; padding-bottom: 4pt">Financial liabilities, net of issuance costs</td> <td style="font: 10pt Times New Roman, Times, Serif; padding-bottom: 4pt"> </td> <td style="border-bottom: Black 4pt double; font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td> <td style="border-bottom: Black 4pt double; font: 10pt Times New Roman, Times, Serif; text-align: right">6,514</td> <td style="padding-bottom: 4pt; font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <td style="font: 10pt Times New Roman, Times, Serif; padding-bottom: 4pt"> </td> <td style="border-bottom: Black 4pt double; font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td> <td style="border-bottom: Black 4pt double; font: 10pt Times New Roman, Times, Serif; text-align: right">1,925</td> <td style="padding-bottom: 4pt; font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <tr style="vertical-align: bottom; background-color: White"> <td style="padding-bottom: 4pt"> </td> <td style="padding-bottom: 4pt"> </td> <td style="padding-bottom: 4pt"> </td> <td style="padding-bottom: 4pt; text-align: right"> </td> <td style="padding-bottom: 4pt; text-align: left"> </td> <td style="padding-bottom: 4pt"> </td> <td style="padding-bottom: 4pt; text-align: right"> </td> <td style="padding-bottom: 4pt; text-align: left"> </td> <tr style="vertical-align: bottom; background-color: rgb(204,238,255)"> <td style="font: 10pt Times New Roman, Times, Serif; text-align: left">Derivative liability</td> <td style="font: 10pt Times New Roman, Times, Serif"> </td> <td style="font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td> <td style="font: 10pt Times New Roman, Times, Serif; text-align: right">666</td> <td style="font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> <td style="font: 10pt Times New Roman, Times, Serif; text-align: right"> </td> <td style="font: 10pt Times New Roman, Times, Serif; text-align: left">\$</td> <td style="font: 10pt Times New Roman, Times, Serif; text-align: right"><div style="-sec-ix-hidden: hidden-fact-123">-</div></td> <td style="font: 10pt Times New Roman, Times, Serif; text-align: left"> </td> </tr></table>8250000206300017360001380006514000192500066600012200014000825000075000000.10450000550007500000.100.080.920.04</td> <td style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Note 9. Loan Receivable</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">On May 16, 2023, the Company entered into a Summary of Proposed Terms (the "Letter of Intent") with millionways, Inc. ("millionways") to provide bridge loans to millionways and enter into due diligence to acquire up to 100% of the AI firm. On June 6, 2023, the Company entered into a Note Purchase Agreement (the "MW Agreement") with millionways, pursuant to which the Company agreed to purchase from millionways up to three unsecured promissory notes (each, a "MW Note"), in an aggregate principal amount of up to \$2.0 million, subject to the terms and conditions of the MW Agreement. Also on June 6, 2023, pursuant to the terms of the MW Agreement, the Company purchased the MW Notes from millionways and loaned an aggregate principal amount of \$500 thousand to millionways.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The MW Agreement contains customary representations and warranties by millionways and the Company, as well as a "most favored nations" provision for the benefit of the Company. The MW Notes issued under the MW Agreement, including the MW Notes issued on June 6, 2023, provide that the indebtedness evidenced by the applicable MW Note bears simple interest at the rate of 10% per annum (or 15% per annum during the occurrence of an event of default, as defined in the MW Notes), and becomes due and payable in full on the earlier of (i) May 16, 2024, (ii) a change of control (as defined in the MW Notes) of millionways, (iii) dollar-for-dollar prepayment for additional capital received through any vehicle from a third party or (iv) an event of default. </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company reserved approximately \$306 thousand of the outstanding \$613 thousand receivable as uncollectible based on credit risk in the unaudited condensed consolidated financial statements as of September 30, 2024, and \$279 thousand of the outstanding \$558 thousand receivable as of December 31, 2023.</p>120000005000000.100.15306000613000279000558000<p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Note 10. Contingencies</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Indemnification Arrangements</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Legal Proceedings</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">We enter into standard indemnification arrangements in our ordinary course of business. Pursuant to these arrangements, we indemnify, hold harmless, and agree to reimburse the indemnified parties for losses suffered or incurred by the indemnified parties (generally our business partners or customers) in connection with any trade secret, copyright, patent or other intellectual property infringement claim by any third-party with respect to our products. The term of these indemnification agreements is generally perpetual any time after the execution of the agreement. The maximum potential amount of future payments we could be required to make under these agreements is not determinable. We have never incurred costs to defend lawsuits or settle claims related to these indemnification agreements. As a result, we believe the estimated fair value of these agreements is minimal.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">We have entered into indemnification agreements with our directors and officers that may require us to indemnify our directors and officers against liabilities that may arise by reason of their status or service as directors or officers, other than liabilities arising from willful misconduct of a culpable nature. These agreements also require us to advance their expenses incurred as a result of any proceeding against them as to which they could be indemnified and to make good faith determination whether or not it is practicable for us to obtain directors and officers insurance. We currently have directors and officers liability insurance.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Legal Proceedings</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">From time to time, we may be involved in legal proceedings arising in the ordinary course of business. In general, management believes that ordinary course of business matters will not have a material adverse effect on our consolidated financial position or results of operations and are adequately covered by our liability insurance. However, it is possible that condensed consolidated cash flows or results of operations could be materially affected in any particular period by the unfavorable resolution of one of more of these contingencies or because of the diversion of management's attention and the incurrence of significant expenses.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">See Part II, Item 1, <i>Legal Proceedings</i>, in this Form 10-Q for additional details on the status of motions on the following proceedings.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">BV Advisory v. QCI Breach Lawsuit</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">**

align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">At the time of the QPhoton Merger in June 2022, QPhoton had an outstanding balance of principal and interest due to BV Advisory Partners, LLC ("BV Advisory") based on a Note Purchase Agreement that QPhoton had entered into with BV Advisory on March 1, 2021. Accordingly, the Company has recorded an estimated payable (the "BV Advisory Payable"), recognized as other current liabilities on the unaudited condensed consolidated financial statements, based on best available information in the amount of \$536 thousand as of September 30, 2024 and December 31, 2023.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">On August 16, 2022, BV Advisory filed a complaint in the Court of Chancery of the State of Delaware (the "DE Chancery Court") naming the Company and certain of its directors and officers (among others) as defendants seeking, among other relief, monetary damages. The Company believes that BV Advisory's claims have no merit and intends to defend itself vigorously. BV Advisory's claims are not covered by the Company's liability insurance, nor does the Company believe it is necessary to accrue an amount in addition to the BV Advisory Payable at this time.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">BV Advisory v. QCI Appraisal Action</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">BV Advisory was purportedly a shareholder of QPhoton, Inc., the predecessor in interest to QPhoton, LLC, a wholly owned subsidiary of the Company (both referred to as "QPhoton" in this Legal Proceedings discussion). BV Advisory rejected the Merger Consideration (as defined below) and on October 13, 2022, commenced litigation by filing a petition in the DE Chancery Court seeking appraisal rights on the shares of QPhoton it allegedly owned (which shares represented 10% of the shares of QPhoton outstanding immediately prior to the Company's acquisition of QPhoton). The Company included BV Advisory's purported ownership of QPhoton in the purchase price accounting for the QPhoton Merger.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Company's total purchase price of QPhoton was approximately \$71.0 million, or \$69.9 million net of cash acquired, consisting of Company common stock, Series B Preferred Stock and QPhoton Warrants (as defined below). While the total shares of the Company's common stock on an as-converted basis offered in the QPhoton Merger was 36,600,823 (the "Merger Consideration"), the fair market valuation contemplated 31,299,417 of the shares, which assumed full conversion of the 2,377,028 shares of Series B Preferred Stock to common stock at the 10:1 ratio, and that only 1,726,931 of the warrants to purchase up to 7,028,337 shares of the Company's common stock (the "QPhoton Warrants") would eventually be exercised (specifically only the QPhoton Warrants for which the associated Company options and/or warrants had an exercise price at or below \$2.27 at the time of the QPhoton Merger).</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Accordingly, as of September 30, 2024 and 2023, the Company has neither issued 2,957,251 shares of the Company's common stock on an as converted basis (the "Unissued QPhoton Shares") nor 702,834 warrants to purchase shares of the Company's common stock (the "Unissued QPhoton Warrants") that were included in the Merger Consideration. The Unissued QPhoton Shares are included in the statement of stockholder's equity as additional paid in capital as of as of September 30, 2024 and 2023, and the Unissued QPhoton Warrants have no carrying value as a liability on the Company's condensed consolidated balance sheet as of September 30, 2024.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">Note 11. Capital Stock</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Authorized Classes of Stock</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">As of September 30, 2024, the Company's Board of Directors has authorized two classes of preferred stock. The Board has authorized 1,550,000 shares of preferred stock as Series A preferred stock, par value \$0.0001 per share, of which 993,306 and 1,490,004 shares, respectively, are issued and outstanding at September 30, 2024 and December 31, 2023. The Board has also authorized 3,079,864 shares of preferred stock as Series B preferred stock, par value \$0.0001 per share, none of which are issued and outstanding as of September 30, 2024 and December 31, 2023.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"><i>Series A Convertible Preferred Offering</i></p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">From November 10, 2021 through November 17, 2021, the Company conducted a private placement offering (the "Private Placement") pursuant to securities purchase agreements with 7 accredited investors (the "Series A Investors"), whereby the Series A Investors purchased from the Company an aggregate of 1,545,459 shares of the Company's newly created Series A convertible preferred stock, par value \$0.0001 per share (the "Series A Preferred Stock") and warrants to purchase 1,545,459 shares of the Company's common stock (the "Preferred Warrants") for an aggregate purchase price of \$8.5 million. The Private Placement was completed and closed to further investment on November 17, 2021.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Series A Preferred Stock ranks senior to common stock with respect to the payment of dividends and liquidation rights. Each holder of Series A Preferred Stock is entitled to receive, with respect to each share of Series A Preferred Stock then outstanding and held by such holder, dividends at the rate of ten percent (10%) per annum (the "Preferred Dividends.") The Company is obligated to pay the Preferred Dividends quarterly, in arrears, within fifteen (15) days of the end of each quarter. The Company has the option to pay the Preferred Dividends in cash or in common stock, at a price per share of common stock equal to the average of the closing sale price of the common stock for the five (5) trading days preceding the applicable dividend payment date. The Preferred Dividends are accrued monthly, but not compounded, and are recorded as interest expense, because the Preferred Dividends are mandatory and not declared at the discretion of the Board of Directors.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The number of shares of the Company's common stock issuable upon conversion of any share of Series A Preferred Stock shall be determined by dividing (x) the Conversion Amount of such share of Series A Preferred Stock by (y) the Conversion Price. "Conversion Amount" means, with respect to each share of Series A Preferred Stock, as of the applicable date of determination, the sum of (1) the stated value thereof plus (2) any accrued dividends. "Conversion Price" means, with respect to each share of Series A Preferred Stock, as of any optional conversion date, Mandatory Conversion Date or other date of determination, \$5.50, subject to adjustment for stock splits, dividends, recapitalizations and similar corporate events.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">The Preferred Warrants were two-year warrants to purchase shares of the Company's common stock at an exercise price of \$7.00 per share, subject to adjustment, were exercisable at any time on or after the date that was six months following the issuance date, and provided for cashless exercise in the event the underlying shares of the Company's common stock are not registered. As of December 31, 2023, all of the Preferred Warrants had expired unexercised.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">In connection with the Purchase Agreement, the Company and the Series A Investors entered into a registration rights agreement (the "Registration Rights Agreement") pursuant to which the Company agreed to file a registration statement to register the shares of the Company's common stock underlying the Series A Preferred Stock and warrants within 180 days. Pursuant to the Registration Rights Agreement, the Series A Investors received certain rights, including but not limited to piggyback registration rights, providing that the holder be given notice of any proposed registration of securities by the Company, and requiring that the Company register all or any portion of the registrable securities that the holders request to be registered, in each case, subject to the terms and conditions of the Registration Rights Agreement. On April 27, 2022 the Company filed a Resale Form S-3 as required by the Registration Rights Agreement. The Resale Form S-3 went effective on June 2, 2022.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">On June 13, 2022, one of the Series A Investors, Falcon Capital Partners, converted 45,455 shares of Series A Preferred Stock into 47,728 shares of the Company's common stock.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">On February 9, 2023, one of the Series A Investors, Greenfield Children, LLC, converted 10,000 shares of Series A Preferred Stock plus accrued dividends into 11,096 shares of the Company's common stock.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify">On March 19, 2024, the Company entered into a Redemption and Waiver Agreement (the "Series A Redemption Agreement") with the current holders (the "Series A Holders") of its Series A Preferred Stock. Accordingly, \$8.125 million of additional paid in capital was reclassified from shareholders' equity to mezzanine equity (the "Mezzanine Equity") on the Company's condensed consolidated balance sheet as of September 30, 2024, in accordance with Accounting Series Release No. 268, <i>Presentation in Financial Statements of "Redeemable Preferred Stocks"</i>. The Mezzanine Equity is valued at the date of the Private Placement issuance. Pursuant to the Series A Redemption Agreement, the Company agreed to redeem all outstanding shares of the Series A Preferred Stock for an aggregate cash purchase price of \$8,195,000, or \$5.50 per share, at its sole discretion, in 18 monthly payments (each a "Monthly Redemption Threshold" payment), which may be accelerated at the Company's sole discretion. In addition, the Series A Holders agreed to waive (the "Waivers"), on a month-by-month basis following each monthly payment, certain rights granted to them in (i) the Preferred Stock Certificate of Designation (the "Preferred Stock COD"), including for the accrual and payment of accrued and future dividends; and (ii) the Preferred Stock Securities Purchase Agreement (the "Preferred Stock SPA"). In the event the Company opts to not make a Monthly Redemption Threshold payment, the Waivers are forfeited and the terms revert to those detailed in the Preferred Stock COD and Preferred Stock SPA. During the three and nine months ended September 30, 2024, the Company redeemed 248,349 and 496,698 shares of Series A Preferred Stock, respectively, for approximately \$1.4 million and \$2.7 million, in cash paid to the Series A Holders, respectively. As of September 30, 2024 and December 31, 2023, there were 993,306 and 1,490,004 shares of Series A Preferred Stock, respectively, issued and outstanding.</p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p> <p style="font: 10pt Times New Roman, Times, Serif; margin: 0pt 0; text-align: justify"> </p>

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[illegible]

[illegible]

[illegible]

[illegible]

Note 13. Related Party Transactions There were no related party transactions during the nine months ended September 30, 2024 and 2023.

Note 14. License Agreement - Stevens Institute of Technology Effective December 17, 2020, QPhoton signed a License Agreement with the Stevens Institute (the "Stevens License Agreement"). The Stevens License Agreement enables the Company to commercially use technology such as licensed patents, licensed patent applications and licensed "Know-How" and is also able to issue sublicenses for the technology under the agreement. The agreement is effective until the later of: (i) the 30-year anniversary of the effective date, or (ii) the expiration of the licensed patent or licensed patent application that is last to expire. As part of the merger of the Company and QPhoton, the Stevens License Agreement was assigned to the Company.

During the term of the Stevens License Agreement and prior to any commercialization or sublicensing of the technology by the Company, the Company is required to submit annual reports to the Stevens Institute reporting on all research, development, and efforts toward commercialization and/or sublicensing made during the year. Once any commercialization and/or sublicensing has been initiated, the Company will deliver quarterly reports to the Stevens Institute reporting on the revenue received by the Company, all sublicenses derived from the sale of licensed products, and the net sales price associated with each transaction. The Company will be responsible for reimbursing Stevens for any costs associated with the prosecution and maintenance of the licensed patents and licensed patent applications moving forward.

Consideration for the Agreement As consideration for the license and other rights granted under the agreement, QPhoton agreed to pay the following: (i) \$35 thousand within 30 days of execution of the agreement, (ii) \$28 thousand within 30 days of each annual anniversary of the effective date, (iii) equity in the Company equivalent to nine percent of the outstanding equity of the Company within 30 days of the execution of the agreement, and (iv) royalties of 3.5% of the net sales price of each licensed product sold or licensed by the company during the quarter then-ended, for which it also received payment, concurrent with the delivery of the relevant quarterly report.

As of September 30, 2024, the Company has begun to commercialize some of the licensed technology, though has not recognized any related revenue and hence has not incurred any royalty expenses payable to the Stevens Institute.

As consideration for the license and other rights granted under the agreement, QPhoton agreed to pay the following: (i) \$35 thousand within 30 days of execution of the agreement, (ii) \$28 thousand within 30 days of each annual anniversary of the effective date, (iii) equity in the Company equivalent to nine percent of the outstanding equity of the Company within 30 days of the execution of the agreement, and (iv) royalties of 3.5% of the net sales price of each licensed product sold or licensed by the company during the quarter then-ended, for which it also received payment, concurrent with the delivery of the relevant quarterly report.

Note 15. Restatement of Previously Issued Financial Statements Subsequent to the issuance of our Annual Report on Form 10-K for the year ended December 31, 2023, and our subsequent retention of BPM LLP to replace BF Borger CPA PC as our independent registered public accounting firm, management became aware of various adjustments to be recorded to our consolidated financial statements. Accordingly, on September 11, 2024, we filed Amendment 1 to our Annual Report on Form 10-K for the year ended December 31, 2023 (the "2023 Amendment"), amending our consolidated balance sheets as of December 31, 2023 and 2022, and amending our consolidated statements of operations, our consolidated statements of stockholders' equity, and our consolidated statements of cash flows for the years ended December 31, 2023 and 2022, primarily with regard to the purchase accounting of the QPhoton Merger, stock-based compensation accounting, financing costs, and other matters. The restated consolidated financial statements in the 2023 Amendment also reflect the correction of certain previously-identified errors and out-of-period adjustments that were deemed immaterial to the annual or interim period in which they were recorded and have been restated in the 2023 Amendment to properly reflect the corrections in the appropriate periods.

In this Quarterly Report on Form 10-Q for the nine months ended September 30, 2024, we amended our consolidated statements of operations, our consolidated statements of stockholders' equity, and our consolidated statements of cash flows for the nine months ended September 30, 2023, which restate and revise items in line with the disclosures and reclassifications discussed in the 2023 Amendment. The aggregate impact of these errors on our condensed consolidated statements of operations for the three and nine months ended September 30, 2023, is a decrease in net loss of approximately \$1.4 million and \$1.0 million, respectively. The estimated aggregate impact of these errors on the Company's condensed consolidated balance sheet for the nine months ended September 30, 2023, is (i) decreased intangible and goodwill assets of \$8.6 million; (ii) materially unchanged and increased liabilities of approximately \$500 thousand; and (iii) decreased stockholder's equity of approximately \$9.1 million.

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Note 16. Subsequent Events In October and November 2024, the Company redeemed 165,566 shares of Series A Preferred Stock for \$910 thousand. As of November 4, 2024, the Company has redeemed 662,264 shares of Series A Preferred Stock for a cumulative redemption amount of \$3.6 million in cash paid to the Series A Holders; there are 827,740 shares of Series A Preferred Stock issued and outstanding.

In October 2024, the Company resumed use of its ATM Facility and sold approximately 3.9 million shares of common stock as of November 4, 2024. The Company intends to use the net proceeds for our operations and for other general corporate purposes, including, but not limited to, capital expenditures, including our AZ Chips Facility, as defined in Item 2, Management's Discussion and Analysis of Financial Condition and Results of Operations, payments under the Series A Redemption Agreement and general working capital. As of November 4, 2023, the Company has approximately \$55 million available under the 2022 Shelf and \$5 million available under the ATM Agreement, as amended.

There are no other events of a subsequent nature that in management's opinion are reportable.

16556691000066226436000008277408277403.9550000005000000falsefalsefalsefalse P2Y false--12-31Q30001758009 As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statements of operations for the three and nine months ended September 30, 2023. As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statements of stockholders' equity for the three and nine months ended September 30, 2023. As described in Note 15 to these unaudited condensed consolidated financial statements, we have restated the condensed consolidated statement of cash flows for the nine months ended September 30, 2023. "

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