

Quantum Tales

by Spencer Churchill

General metrics

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characters

4,290

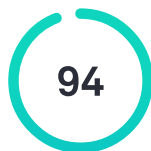
words

309

sentences

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Score



This text scores better than 94%
of all texts checked by Grammarly

Writing Issues

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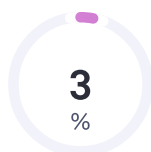
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9

Critical

102Advanced

Plagiarism

**12**

sources

3% of your text matches 12 sources on the web
or in archives of academic publications

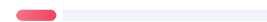
Writing Issues

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Clarity

7

Hard-to-read text



12

Passive voice misuse



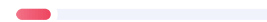
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Wordy sentences



6

Unclear sentences



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Intricate text

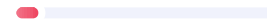


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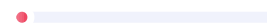
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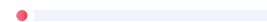
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Misplaced words or phrases



1

Determiner use (a/an/the/this, etc.)



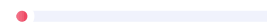
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Incorrect noun number



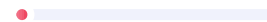
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Misspelled words



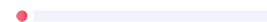
2

Incomplete sentences



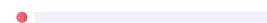
1

Confused words



1

Incorrect verb forms



9

Engagement

9

Word choice



46

Delivery

46

Inappropriate colloquialisms



Unique Words

30%

Measures vocabulary diversity by calculating the percentage of words used only once in your document

unique words

Rare Words

48%

Measures depth of vocabulary by identifying words that are not among the 5,000 most common English words.

rare words

Word Length

4.8

Measures average word length

characters per word

Sentence Length

13.9

Measures average sentence length

words per sentence

Quantum Tales

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Spencer Churchill

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113

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Table of Contents

Introduction 4

The Entangled Love of the Cowherd and Weaver Girl 6

Goldilocks and the Quantum Spoon 9

Ali Baba and the RSA Keys 12

Tortoise vs. Hare — Quantum Rematch 16

Acknowledgments 19

Bibliography 20

Introduction

Fairy Tales

Quantum Tales borrows fables from around the world to excite and educate readers about quantum algorithms. There are four popular fairy tales from England to China, and they all illustrate various applications for quantum computing.

- * The Cowherd and the Weaver Girl (牛郎织女) is the Chinese Valentine's Day story that was modified to teach Quantum Teleportation.

- * Goldilocks and the Three Bears comes from England and is the most fitting story to apply the Deutsch-Jozsa algorithm.

114

- * Ali Baba and the Forty Thieves (علي بابا والأربعون لصا), a traditional Arabian oral story, perfectly demonstrates the power of Shor's algorithm.

- * The Tortoise and the Hare (Ο λαγός και η χελώνα), originating from ancient Greece, is revitalized in a rematch using Grover's algorithm.

Quantum Algorithms

- * Quantum Teleportation is used as an example of sending quantum information by classical means.

- * The Deutsch-Jozsa Algorithm determines if a function is constant or balanced, meaning it returns either the same value (0 or 1) or both evenly (0 and 1).

- * Shor's Algorithm calculates the periodicity of a function and is most useful for prime factorization.⁴

- * Grover's Algorithm searches for an item in an unordered list.

QR Codes

There is a QR code in each story for a deep-dive into the content. The QR codes are presented⁵ when the protagonist implements the quantum algorithm, and they give a more involved experience. Scan or click the QR codes and be redirected to the GitHub repository. Clicking the Google Colab link will run the code in the browser⁶; the jupyter notebook can also be viewed⁷ in the repository.

Ways of Reading

For readers looking for an enjoyable twist on classic fairy tales, simply reading⁸ the stories is more than enough; however, for curious readers, scan the QR codes and look at the code, variables, and outputs⁹. Also, browse the citations for great quantum resources. For advanced quantum readers, please review the code and submit a pull request if anything should be changed.¹⁰

The Entangled Love of the Cowherd and Weaver Girl

As the first peonies broke into bloom, the seven imperial daughters of Heaven, with clouds tracing their steps, descended from their jade palace to bathe in the clear lake. The cool spring breeze swept up their long hair as they removed their silken gowns and draped them on overhanging branches. While they were soaking, the breeze lifted one of the dresses and laid it gently upon the water. It was Zhīnǚ's dress — the youngest sister. Her sisters giggled at her misfortune as they donned their own¹¹ dry gowns and returned to Heaven.

Watering his oxen at the lake, the young cowherd Niúláng spied Zhīnǚ sitting unclothed beside the bank. Hastily, he removed his tunic and covered the girl. She explained that her clothes were wet from blowing into the lake and

Niúláng, charmed by Zhīnǚ, offered to accompany her on a walk while her dress dried in the sun.

Niúláng led Zhīnǚ up an ocher hill overlooking the water and surrounding countryside. He confessed that he had come here to graze his oxen and watch the colorful clouds overhead. Niúláng eagerly described the beautiful hues of these clouds, unaware of Zhīnǚ's deepening blush, but she soon revealed it was she who weaves the clouds in Heaven.

To Niúláng, the clouds were mere shadows of Zhīnǚ's beauty; he would rather see empty skies than be without her.

Returning to the lake, Niúláng playfully tossed Zhīnǚ's clothes back into the water and asked her again to stay with him until her clothing dried. Her cheeks grew pink as she smiled and nodded.

The two grew closer, finding themselves lost in love. The jade palace was rarely ¹¹⁵ in Zhīnǚ's thoughts. As their love grew, so did their family, and Niúláng and Zhīnǚ began sharing their tranquil life with two children. All this time, Zhīnǚ's heavenly dress rested along the lake bed.

Xīwángmǔ, Zhīnǚ's mother and Empress of Heaven, was bothered by the suspicious absence of new clouds. After questioning her daughters, she discovered that Zhīnǚ had betrayed Heaven and married a mortal. Driven to rage by her youngest daughter's foolishness, Xīwángmǔ ordered the unwilling princess back to the heavenly palace.

Niúláng, distraught from the loss of his beloved, swiftly returned to the lake. Clutching his wife's sodden dress, he cursed the heavens for stealing her. ¹² And a response came, not from the sky, but from Niúláng's most prized ox that had sipped from the ¹³ heavenly water.

The ox told Niúláng that if he wore its hide as a cloak, he could ascend to Heaven and find his wife. With a heavy heart, Niúláng killed the ox, covered his

shoulders with its skin, and climbed toward the heavens with his children.¹⁴

Overjoyed to be reunited with Niúláng, Zhīnǚ nevertheless knew her mother well and was aware of what would come. She warned Niúláng that the arrival of a mortal and two half-celestials in Heaven would infuriate her mother and that she would separate them again.

As Zhīnǚ prepared for their inevitable separation, she remembered what Yùhuáng, her father and Emperor of Heaven, had taught her.

As all good rulers know, the exchange of ideas is the currency of power, and Yùhuáng had devised the strongest¹⁵ method in the universe. He referred to this method as Quantum Teleportation, a secure way to encode and communicate

¹¹⁶ information across the heavens at the speed of light.

Niúláng listened intently¹⁶ as Zhīnǚ imparted her father's method of communication. Using starlight, they could connect particles and send messages to each other, despite whatever Xīwángmǔ might try.

Zhīnǚ demonstrated the process. She unclasped a crystal earring and held it high, splitting a beam of starlight into two photons. This pair, born from the same beam, was tightly related and entangled. If either photon in this

entangled pair were changed, even slightly, its twin would reflect the change.¹⁷

Zhīnǚ stored one photon for her and the other for Niúláng.

She handed Niúláng her other earring, and they worked together, entangling enough particles to communicate for an entire year, all organized by pairs. In time, Xīwángmǔ spotted Niúláng with Zhīnǚ in Heaven. Enraged once more, Xīwángmǔ drew her jade hairpin, and as her hair tumbled around her feet, slashed a river between the couple, forming the Milky Way.

This silver river swept the two lovers apart. But¹⁸, with their entangled particles, they sent messages back and forth throughout the year. And¹⁹ though Xīwángmǔ tried her hardest, she could never read the couple's messages.

The magpies, curious upon finding a new river of stars in the sky, flew up to ask Zhīnǚ what had happened. She explained what her mother had done and that she and Niúláng needed a way to entangle more particles each year. The magpies considered this, and on the seventh night of the seventh moon, flew to Heaven to form a bridge across the Milky Way for the two lovers.

Even now, despite her mother's interference, Zhīnǚ and Niúláng continue entangling particles each year to share their infinite love across the universe.

Goldilocks and the Quantum Spoon

Between a quiet village and a dark forest, there once was a vast field of wildflowers. Wandering through this meadow was a girl with golden hair. As she walked, she hummed and searched for perfect flowers. ²⁰ You see, this girl was Goldilocks, and she needed everything to be just right.

She searched and searched, but few flowers struck her fancy: some stems ²¹ were bent, some petals had brown tips, and some still had bees buzzing and ²² bumbling about, so she turned and ventured toward the forest. Goldilocks knelt over a delicate flower and pulled back a petal. "Is there a bee, or not a bee? That is the question," she mused.

Goldilocks gathered her final flowers and now held the most beautiful bouquet of honeysuckles and merrybells. ²³ But the surrounding trees had blocked the sun, and she lost track of time between their shadowed trunks. So much time, ²⁴ in fact, that she found herself becoming hungry.

As it happened, she spotted a small cottage with a thatched roof in a deep clearing. The cottage looked welcoming, and sweet scents wafted over a tidy porch toward her.

Goldilocks knew the smell of home-cooked porridge, but she did not know that the house belonged to three bears. Fortunately for her, the three bears had sauntered into the forest to scavenge for berries, their preferred breakfast topping.

Goldilocks knocked, waited, then knocked again. There was no response. The smells of hot oats and brown sugar filled the entry, and, finding the door was unlocked, she could not help but peek inside.

From the doorway's old oak frame, she saw a table set for three and one²⁵
quantum computer.²⁶ She hoisted herself into the largest²⁷ chair, but the cushion was too deep, and her feet dangled awkwardly. The smallest²⁷ chair was much too tight, so she relaxed into the medium chair, and it felt just right. There she waited, sniffing at the bowls of porridge and becoming even hungrier.

She waited and waited, and still²⁸ no one came. "They must be very slow," she thought. "Their porridge will be cold before they get home!" So she scooted closer to the table.

There were three wooden bowls: one large, one medium, and one small — all filled with porridge. Goldilocks reached for a spoon, then hesitated. "Which porridge to try?" she pondered. Too cold would be unpleasant; too hot might burn her tongue. Goldilocks had been burned²⁹ before, and it was not going to happen again.

Those close to Goldilocks knew she was well-versed in flowers and porridge, but she also knew her quantum algorithms. To make an informed decision on
this porridge conundrum,³⁰ the key was to consider each bowl as either entirely hot or entirely cold,³¹ or an equal blend of hot and cold porridge. By doing so, she could apply the Deutsch-Jozsa algorithm.

This algorithm would instantly reveal whether a given bowl was either constant or balanced. A constant bowl of porridge would be completely hot or

completely cold. A balanced bowl would be an equal mix of hot and cold porridge.

To avoid the misfortune of tasting the wrong porridge, she put the computer to work testing the bowls. The large and small bowls were both constant and therefore either too hot or too cold. The medium bowl was balanced, and thus, she knew it was just the right blend of hot and cold porridge.

She savored her success at finding the finest³² porridge and tasted and tasted until the bowl was all tasted. But³³ this tasting had made Goldilocks very sleepy. She gently lifted her bouquet and rose from the table to find somewhere to rest. Upstairs, she entered a bedroom with three beds: one large, one medium, and one small. Goldilocks eyed the large and small beds, but from her experience with the chairs and porridge, she settled decidedly into the medium bed and fell fast asleep.³⁴

But³⁵ while Goldilocks was dreaming of more uses for quantum algorithms, the three bears returned: one large, one medium, and one small. They trundled to their table, put their berry-filled basket down, and settled into their respective chairs. The large and small bears began delicately placing berries upon their porridge, but the³⁶ third bear sat still in confusion, berries resting in his paw. Never had someone else eaten his supper before, and he started to growl, for he was very hungry³⁷. The bears soon noticed their quantum computer had been used as well and began to nose around.

Goldilocks stirred when she heard this commotion. She peeked out and saw three brown bears! They were nearing the bedroom, following the sweet scent of her bouquet. Quickly, Goldilocks threw the flowers away from her and dashed to the open window.

By the time the three bears looked out, Goldilocks was already running toward the trees. Tired and hungry from their ambling, they chose not to follow the

thief. The large and small bears happily began slurping up their porridge, and the hungriest bear munched on his berries.

Ali Baba and the RSA Keys

A wealthy merchant fathered two sons, Ali Baba and Qasim. Qasim prided himself on living comfortably, having acquired his father's business and marrying a wealthy woman. Ali Baba, on the other hand, welcomed a more modest lifestyle — becoming a woodcutter and marrying Fatima, the woman he³⁸loved.

While chopping wood one day, Ali Baba heard many heavy footsteps passing close by. From behind a large juniper tree, he spied forty thieves laden with treasure. As Ali Baba peeked around the trunk, he saw the leader of the thieves,³ called Lot, approaching a sheer mountain face in the distance. Lot leaned toward the rock face, whispered, and stepped back as the mountain split, revealing a deep cave. One by one, Lot and his fellow thieves entered with their gold, and the cave closed behind them. Sometime later, the cave opened again to let out the now empty-handed men, closing behind them once more.

After the thieves had vanished, Ali Baba approached the face of the cliff himself and noticed a series of jumbled letters carved into the rock. He whispered them to the mountain, curious if they opened the cave, but alas, they did not. He transcribed the letters from stone to a scrap of paper and returned home to find his brother anxiously pacing in front of his door.

Ali Baba asked him what was wrong, and Qasim disclosed that a fellow trader had just been killed⁴⁰ in a neighboring town. Their entire caravan had been

⁴¹plundered, and only an unintelligible note ⁴²was left among the rubble. Qasim was desperately worried for his own family.

Concerned, Ali Baba reached for the note and was shocked to discover letters as jumbled as those he had seen etched into the mountain face. ⁴³In addition, he spotted a small number jotted on the corner of the note. Qasim left for his own home, leaving the tattered note behind.

Something about the note tugged at Ali Baba's memory. He recalled hearing stories from a trader about a band of thieves who communicated using secret messages. As they had grown prosperous and powerful, the group recognized they required communications that could not be compromised. Messages that, even if viewed in broad daylight, would appear only as scrambled letters. The trader had explained that these progressive thieves had begun using a cipher known as RSA to encrypt their secret messages. The cipher would scramble messages with a public key and unscramble messages with a private key. Only with the private key was the message able to be read. Thus, the ⁴⁴leader of the thieves could receive reports from his members, employ spies, and direct his thieving throng while remaining safe from prying eyes. The RSA cipher had helped them become very wealthy.

Coincidentally, Ali Baba's father had received a device that drew on the nature of atoms for computation. This mysterious computer could uncover the patterns of functions ⁴⁵in order to factor numbers, a process referred to as Shor's algorithm.

For Ali Baba to decipher their message, he would need to factor the number on the ⁴⁶corner of the note. This number was called the modulus, the product of two prime numbers. These prime numbers ⁴⁷were also used to create ⁴⁸the public and private keys. By using Shor's algorithm, Ali Baba can factor the modulus into two prime numbers. With these numbers, he knew that he could use the ⁴⁹very

same RSA algorithm the thieves used to generate their private ⁵⁰key and read their secret ⁵¹message.

It was late at night when Ali Baba finally finished applying Shor's algorithm, and ⁵²he had indeed succeeded in factoring the number and generating the thieves' private key. With this key, he decrypted the message etched in stone, "Open sesame."

The next morning, Ali Baba hastened to the mountain, whispered "Open sesame," and watched as the mountain opened to his words. Not wishing to leave any trace of his entry, he rushed in and collected one small sack of gold. Ali Baba returned home to show his wife the gold, and she burst into tears of joy. After Ali Baba left for the forest, Fatima hurried to Qasim and asked to borrow a scale. Curious to know what his penniless brother's wife could ⁵³possibly need to weigh, Qasim secretly applied wax to the inside of the scale. After weighing the gold, Ali Baba's wife returned the scale, and when ⁵⁴Qasim discovered a piece of gold stuck to the wax, he became envious. "Ali Baba has so much gold he ⁵⁵can't count it! He needs to weigh it all!" he cried.

Driven by greed, Qasim decided to follow his brother. When Ali Baba left for work, Qasim watched from a safe distance. After several hours, he saw Ali Baba approach a cliff and enter a cave through a magical opening — a cave he could see was filled with treasure. Ali Baba quickly emerged with a bag of gold, and the cave sealed itself once again. ⁵⁶Qasim, overwhelmed with desire, vowed to return and empty the magic cave of all its treasure.

At home that night, Qasim strapped great wooden chests to all of his mules. He led the caravan toward the cliff, but the entrance would not open when he approached. For hours Qasim scratched and smacked the rock in frustration, so distracted that he did not notice the forty thieves approaching in silence.

Turning at one point to catch his breath, Qasim was greeted⁵⁷ with dozens of raised scimitars.

Lot pushed his men aside. “What have we here?” he asked as his thumb grazed his scimitar’s edge. Qasim’s eyes bulged.

“Look, habibi,”⁵⁸ Lot continued, “I appreciate a good theft as much as any other, but this is our secret cave, and now it’s⁵⁹ not so secret, is it?” Now he toyed with the hilt of his sword. Qasim quickly tried to explain, but Lot’s scimitar was quicker.⁶⁰

After a few weeks, Ali Baba asked Qasim’s wife why he had not seen his brother for many days. She lamented that he had gone away weeks ago with his mules but had not returned. After months with no sign of Qasim, the two correctly guessed that the group of bandits had dispatched Qasim and his caravan. Ali Baba swore to avenge his brother and continued to secretly loot the cave.⁶¹ He quietly invested his newfound wealth back into the town, in particular⁶² the funding of a new school. There, he taught quantum computation and assured his students that quantum algorithms would prove very useful.

Tortoise vs. Hare — Quantum Rematch

The wind rushed through his golden fur. The ground shook with his every leap. With ears pinned back, the Hare bolted across the green hills. Several animals glanced up as he thundered by. Breaking the beat of the Hare’s pounding feet, the Weasel jeered, “Slowpoke!”

The Hare swiveled in mid-stride, skidding to a halt. “Who said that? Answer!” He thumped angrily as the surrounding animals howled with laughter. This⁶³ was the Hare’s last straw.

“For over two thousand years,” the Hare huffed, “I have endured your jibes, snickers, and mockery. Well, that ends now!” His tail bristled. “I am the most agile, quick, dashing animal, and I will redeem all harekind.” His roving eyes narrowed and settled on the dozing Tortoise.

After a humiliating loss to the Tortoise in a race millennia ago, the Hare had steadily trained. Despite his evident improvements in speed and agility, however, the other animals often reminded him of the loss.

The Tortoise, on the other hand, had spent his days resting under an olive tree, contemplating the world. Always contemplative, always the philosopher, he was currently engrossed in the study of quantum mechanics.

“There is no way you can ⁶⁴best me,” the Hare huffed. “We will race again, and I will win.”

“⁶⁵You’ve become ⁶⁶so quick,” the Tortoise began, his eyes opening. “I will certainly need time to get ready.”

The Tortoise slowly blinked. The Hare’s eye twitched.

¹¹⁸ | The next morning, the Tortoise and the Hare both awoke early to prepare for the rematch. The Hare streaked across the old trail, over and over, improving his time with every passage. When the Hare looked to see how his rival was preparing, he noted the ⁶⁷Tortoise merely wandering ⁶⁸aimlessly — or so he thought. In reality, the Tortoise was dutifully logging the distance of every possible path.

Soon, the day of the big race arrived. The Fox marked the destination as he had long ago. ⁶⁹And with an enthusiastic wave of the flag, the Tortoise and the Hare ⁷⁰started off.

The Hare bounded and zigzagged through bushes and shrubs at an astonishing speed. Occasionally, he would pause and stretch, looking behind with a grin. Never spotting the Tortoise, the Hare would scratch his ears, fluff his tail, and

once again dash over the game trail toward the finish line. It was the best he had felt in years.

Meanwhile, the Tortoise shuffled over to his quantum computer and withdrew the long list of routes. He remembered that one path would ensure his victory, but he had forgotten the way! There were far too many paths to search, so instead, he resolved to use Grover's algorithm. This algorithm would amplify the path he wanted to find while reducing all others.

In the blink of an eye, the Tortoise's computer had found the shortest path, so

119

he headed off in a direction quite different from the Hare's.

Instead of following the same worn route, the Tortoise kept to the path given by Grover's algorithm, avoiding the bushes and shrubs and reducing the distance covered by the Hare's leaps and bounds. The Tortoise slowly, but directly, made his way toward the finish line.

From up on a hill, the Hare looked behind himself once more, squinting against the sun, trying to spot the Tortoise.⁷¹ "Typical," he thought. "The Tortoise is even slower than last time."

Now he turned to finish the race. But⁷² when he did, he saw the Tortoise trudging forward across the finish line.

The Hare charged down the slope but was too late to overtake the Tortoise.

"How... how?" panted the Hare.

The Tortoise winked at his opponent and offered with a wry smile, "It's⁷³ the shortest path that wins the race."

Acknowledgments

120 I need to begin by thanking ⁷⁴my ⁷⁵family and friends for reading the stories and listening to ⁷⁶me ^{77,78}during the process. I'm sure that ⁷⁹they'd prefer to do anything other than listening to ⁸⁰me decide between "find," "determine," and "reveal," but their consistent support helped me finish this project.

121 I am so fortunate to have such a talented artist help tell ⁸¹my ⁸²stories. Larissa's illustrations re-inspired ⁸³me ⁸⁴countless times when I was in the midst of writer's block. I can't imagine ⁸⁵being ⁸⁶asked ⁸⁷to illustrate a fairy tale book and then get quantum computers thrown at ⁸⁸me, ⁸⁹but she ⁹⁰did a wonderful job researching and bringing ⁹¹my vision to life.

For the quantum community that welcomed ⁹²me, gave invaluable feedback, and kept ⁹³me excited about quantum, ⁹⁴I thank ⁹⁵you all. To everyone in the Qiskit community, thank ⁹⁶you for ranking the most ⁹⁷interesting quantum algorithms that directly shaped this book.

For the first reason there exists any book at all, ^{98,99}I'd love to extend thanks to the original story-tellers who created these fairy tales. Our world is a much richer place because these stories exist. ¹⁰⁰I am so grateful that ¹⁰¹they've been preserved and can now ¹⁰²be shared with a new purpose.

The other reason ¹⁰³I'm able to publish this book is due to the tremendous support from the Unitary Fund. ¹⁰⁴I came to them with an idea to introduce quantum algorithms through stories, and they have helped ¹⁰⁵me since. Their fund is founded on open-source ideologies and hopes to bring quantum to everyone. It has been an absolute pleasure to work with the Unitary Fund.

123 I specifically want to thank Travis Scholten for supporting ¹⁰⁶my ¹⁰⁷project to receive funding. ¹⁰⁸I would also like to thank Nathan Shammah and William Zeng for ¹⁰⁹helping ¹¹⁰me ¹¹¹narrow my focus and providing countless resources to bring these stories to publication-standards.

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2.	imagination,	Comma misuse within clauses	Correctness
3.	<i>are used</i>	Passive voice misuse	Clarity
4.	<i>* Shor's Algorithm calculates the periodicity of a function and is most useful for prime factorization.</i>	Hard-to-read text	Clarity
5.	<i>are presented</i>	Passive voice misuse	Clarity
6.	browser code	Wordy sentences	Clarity
7.	<i>be viewed</i>	Passive voice misuse	Clarity
8.	simply → merely	Word choice	Engagement
9.	<i>For readers looking for an enjoyable twist on classic fairy tales, simply reading the stories is more than enough; however, for curious readers, scan the QR codes and look at the code, variables, and outputs.</i>	Hard-to-read text	Clarity
10.	<i>For advanced quantum readers, please review the code and submit a pull request if anything should be changed.</i>	Unclear sentences	Clarity
11.	own	Wordy sentences	Clarity
12.	And → Moreover, , Furthermore,	Inappropriate colloquialisms	Delivery
13.	heavenly → holy	Word choice	Engagement
14.	<i>With a heavy heart, Niúláng killed the ox, covered his shoulders with its</i>	Unclear sentences	Clarity

	<i>skin, and climbed toward the heavens with his children.</i>		
15.	strongest → most robust, most potent, most vital, most substantial	Word choice	Engagement
16.	<i>intently</i>	Misplaced words or phrases	Correctness
17.	<i>If either photon in this entangled pair were changed, even slightly, its twin would reflect the change.</i>	Unclear sentences	Clarity
18.	But → However, Nevertheless	Inappropriate colloquialisms	Delivery
19.	And → Moreover,, Furthermore,	Inappropriate colloquialisms	Delivery
20.	<i>You</i>	Inappropriate colloquialisms	Delivery
21.	<i>were bent</i>	Passive voice misuse	Clarity
22.	<i>She searched and searched, but few flowers struck her fancy: some stems were bent, some petals had brown tips, and some still had bees buzzing and bumbling about, so she turned and ventured toward the forest.</i>	Intricate text	Clarity
23.	But → However,, Nevertheless,	Inappropriate colloquialisms	Delivery
24.	, in fact,	Wordy sentences	Clarity
25.	<i>From the doorway's old oak frame, she saw a table set for three and one quantum computer.</i>	Unclear sentences	Clarity
26.	largest → most prominent, most giant, most oversized	Word choice	Engagement
27.	smallest → most miniature, most petite	Word choice	Engagement
28.	<i>still,</i>	Comma misuse within clauses	Correctness

29.	<i>been burned</i>	Passive voice misuse	Clarity
30.	<i>To make an informed decision on this porridge conundrum</i>	Misplaced words or phrases	Correctness
31.	cold,	Comma misuse within clauses	Correctness
32.	finest → most OK	Word choice	Engagement
33.	But → However,, Nevertheless,	Inappropriate colloquialisms	Delivery
34.	<i>Goldilocks eyed the large and small beds, but from her experience with the chairs and porridge, she settled decidedly into the medium bed and fell fast asleep.</i>	Unclear sentences	Clarity
35.	But → However,, Nevertheless,	Inappropriate colloquialisms	Delivery
36.	, but the → . However, the	Hard-to-read text	Clarity
37.	very hungry → starving, famished, ravenous	Word choice	Engagement
38.	<i>Ali Baba, on the other hand, welcomed a more modest lifestyle — becoming a woodcutter and marrying Fatima, the woman he loved.</i>	Unclear sentences	Clarity
39.	thieves leader	Wordy sentences	Clarity
40.	<i>been killed</i>	Passive voice misuse	Clarity
41.	<i>been plundered</i>	Passive voice misuse	Clarity
42.	<i>was left</i>	Passive voice misuse	Clarity
43.	In addition → Also, Besides	Wordy sentences	Clarity
44.	thieves' leader	Wordy sentences	Clarity
45.	in order to → to	Wordy sentences	Clarity

46.	note's corner	Wordy sentences	Clarity
47.	<i>were also used</i>	Passive voice misuse	Clarity
48.	the public	Determiner use (a/an/the/this, etc.)	Correctness
49.	very	Wordy sentences	Clarity
50.	key → keys	Incorrect noun number	Correctness
51.	message → messages	Incorrect noun number	Correctness
52.	, and he → . He	Hard-to-read text	Clarity
53.	possibly	Wordy sentences	Clarity
54.	, and when → . When	Hard-to-read text	Clarity
55.	can't → cannot	Inappropriate colloquialisms	Delivery
56.	Qasim,	Comma misuse within clauses	Correctness
57.	<i>was greeted</i>	Passive voice misuse	Clarity
58.	habibi → Habibi	Misspelled words	Correctness
59.	it's → it is	Inappropriate colloquialisms	Delivery
60.	<i>quicker</i>	Incomplete sentences	Correctness
61.	to loot the cave secretly	Inappropriate colloquialisms	Delivery
62.	in particular → particularly	Wordy sentences	Clarity
63.	<i>This</i>	Intricate text	Clarity
64.	best → beat	Confused words	Correctness
65.	You've → You have	Inappropriate colloquialisms	Delivery

66.	<i>so quick</i>	Incomplete sentences	Correctness
67.	<i>Tortoise is, or Tortoise was</i>	Incorrect verb forms	Correctness
68.	<i>aimlessly</i>	Wordy sentences	Clarity
69.	And → <i>Moreover,, Furthermore,</i>	Inappropriate colloquialisms	Delivery
70.	<i>eff</i>	Wordy sentences	Clarity
71.	<i>From up on a hill, the Hare looked behind himself once more, squinting against the sun, trying to spot the Tortoise.</i>	Intricate text	Clarity
72.	But → <i>However,, Nevertheless,</i>	Inappropriate colloquialisms	Delivery
73.	It's → <i>It is</i>	Inappropriate colloquialisms	Delivery
74.	<i>I</i>	Inappropriate colloquialisms	Delivery
75.	<i>my</i>	Inappropriate colloquialisms	Delivery
76.	<i>me</i>	Inappropriate colloquialisms	Delivery
77.	I'm → <i>I am</i>	Inappropriate colloquialisms	Delivery
78.	<i>I'm</i>	Inappropriate colloquialisms	Delivery
79.	they'd → <i>they would</i>	Inappropriate colloquialisms	Delivery
80.	<i>me</i>	Inappropriate colloquialisms	Delivery
81.	<i>I</i>	Inappropriate colloquialisms	Delivery
82.	<i>my</i>	Inappropriate colloquialisms	Delivery
83.	<i>me</i>	Inappropriate colloquialisms	Delivery
84.	<i>I</i>	Inappropriate colloquialisms	Delivery
85.	<i>I</i>	Inappropriate colloquialisms	Delivery

86.	can't → cannot	Inappropriate colloquialisms	Delivery
87.	<i>being asked</i>	Passive voice misuse	Clarity
88.	<i>me</i>	Inappropriate colloquialisms	Delivery
89.	, but she → . However, she	Hard-to-read text	Clarity
90.	a wonderful → an excellent, a fantastic	Word choice	Engagement
91.	<i>my</i>	Inappropriate colloquialisms	Delivery
92.	<i>me</i>	Inappropriate colloquialisms	Delivery
93.	<i>me</i>	Inappropriate colloquialisms	Delivery
94.	<i>I</i>	Inappropriate colloquialisms	Delivery
95.	<i>you</i>	Inappropriate colloquialisms	Delivery
96.	<i>you</i>	Inappropriate colloquialisms	Delivery
97.	interesting → exciting	Word choice	Engagement
98.	I'd → I would	Inappropriate colloquialisms	Delivery
99.	<i>I'd</i>	Inappropriate colloquialisms	Delivery
100.	<i>I</i>	Inappropriate colloquialisms	Delivery
101.	they've → they have	Inappropriate colloquialisms	Delivery
102.	<i>be shared</i>	Passive voice misuse	Clarity
103.	I'm → I am	Inappropriate colloquialisms	Delivery
104.	<i>I</i>	Inappropriate colloquialisms	Delivery
105.	<i>me</i>	Inappropriate colloquialisms	Delivery

106.	/	Inappropriate colloquialisms	Delivery
107.	my	Inappropriate colloquialisms	Delivery
108.	/	Inappropriate colloquialisms	Delivery
109.	me	Inappropriate colloquialisms	Delivery
110.	helping me narrow → narrowing	Wordy sentences	Clarity
111.	my	Inappropriate colloquialisms	Delivery
112.	<i>All rights reserved. No part of this publication may be reproduced,</i>	in any form or by any means, electronic, mechanical ... http://hdr.undp.org/sites/default/files/lesothonhdr2006.pdf	Originality
113.	<i>stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying,</i>	in any form or by any means, electronic, mechanical ... http://hdr.undp.org/sites/default/files/lesothonhdr2006.pdf	Originality
114.	<i>Ali Baba and the Forty Thieves</i> (علي بابا والأربعون لصا), a traditional	Jarmen Kell And The Forty Thieves Command and Conquer ... https://cnc.fandom.com/wiki/Jarmen_Kell_And_The_Forty_Thieves	Originality
115.	<i>As their love grew, so did their family, and</i>	Joseph GROVE Obituary - (1934 - 2021) - Waterloo, ON ... https://www.legacy.com/obituaries/therecord-waterloo/obituary.aspx?pid=197729135	Originality
116.	<i>across the heavens at the speed of light.</i>	THE SECRET BEHIND STAR WARS - The New York Times https://www.nytimes.com/1985/08/11/magazine/the-secret-behind-star-wars.html	Originality
117.	<i>to form a bridge across the Milky Way</i>	七夕節 (Qīxī jié) Double Seventh Festival ChinaX https://projects.iq.harvard.edu/chinax/event/%E4%B8%83%E5%A4	Originality

		%95%E7%AF%80-q%C4%ABx%C3%AC-ji%C3%A9-double-seventh-festival	
118.	<i>The next morning, the Tortoise and the Hare</i>	TELL ME A STORY: The Tortoise and the Hare (a tale told ... https://web.kitsapsun.com/archive/1998/11-22/0076_tell_me_a_story_the_tortoise_and.html	Originality
119.	<i>headed off in a direction quite different from</i>	The Acts of Simon Magus in the First Century AD http://simonmagus.com/draft/sm.doc	Originality
120.	<i>I need to begin by thanking my family and friends for</i>	Maricopa County Jail Stories: Welcome To Experience of ... https://ldsbiker.blogspot.com/2010/08/welcome-to-experience-of-estralla-jail.html	Originality
121.	<i>I am so fortunate to have such a</i>	I am so fortunate to have such a caring sensitive doctor ... https://www.mdvip.com/patients/member-testimonials/i-am-so-fortunate-have-such-caring-sensitive-doctor	Originality
122.	<i>Our world is a much richer place because</i>	How to Produce A Low Budget Short Movie - Sofy.tv - Blog https://sofy.tv/blog/low-budget-short-movie/	Originality
123.	<i>It has been an absolute pleasure to work with the</i>	The Designed World	Originality