

This equals that Textbook

This equals that is a fundamental principle that resonates across various fields, from mathematics and physics to everyday reasoning and philosophical debates. Understanding what "this equals that" entails not only enhances our comprehension of numbers and equations but also deepens our grasp of logical relationships and equivalence in numerous contexts. In this article, we will explore the concept of equality, its significance, applications, and the nuances that make "this equals that" a cornerstone of rational thought.

Understanding the Concept of Equality

What Does "This Equals That" Mean?

At its core, "this equals that" signifies that two expressions, quantities, or concepts are identical in value, meaning, or significance. The symbol "=" represents this relationship, and it is fundamental in mathematics and logic.

For example:

- $2 + 2 = 4$
- The sum of the angles in a triangle = 180 degrees
- The chemical formula H_2O indicates that two hydrogen atoms equal one oxygen atom in the molecule

This simple statement establishes a relationship of equivalence, which is essential for reasoning, proof, and problem-solving.

The Types of Equality

Equality isn't a monolith; it has various forms depending on the context:

- **Mathematical Equality:** Two expressions have the same value, such as $5 + 3 = 8$.
- **Physical Equality:** Two objects are identical in size, shape, and properties, like two identical coins.
- **Logical Equality:** Statements that have the same truth value, e.g., "All humans are mortal" is logically equivalent to "If someone is human, then they are mortal."
- **Philosophical Equality:** Concepts of equality relating to fairness, rights, and justice.

Understanding these distinctions helps clarify how "this equals that" operates across disciplines.

The Role of Equality in Mathematics and Science

Mathematics: Foundations of Equivalence

Mathematics relies heavily on the principle of equality:

- Algebra: Equations are statements of equality that can be manipulated to find unknowns.
- Calculus: Limits and derivatives involve understanding when two expressions approach the same value.
- Number Theory: Concepts like modular arithmetic hinge on equivalence relations.

Mathematicians often define equivalence relations?relations that are reflexive, symmetric, and transitive?to classify elements into equivalence classes.

Physics: Conservation and Symmetry

In physics, the concept of "this equals that" underpins many fundamental principles:

- Conservation Laws: Energy, momentum, and charge are conserved; meaning, they remain equal before and after interactions.
- Symmetry: Physical laws remain invariant under certain transformations, indicating equivalence under specific conditions.

For instance, the principle of mass-energy equivalence, expressed as $E=mc^2$, establishes a profound connection between mass and energy, effectively making them two forms of the same entity.

Applications of "This Equals That" in Everyday Life

Financial Transactions

In finance, the equality principle ensures balance and fairness:

- Banking: Deposits must always balance with withdrawals, ensuring the ledger's integrity.
- Budgeting: Income equals expenses plus savings, maintaining financial stability.

Legal and Ethical Contexts

Legal principles often hinge on equality:

- Equal rights: All individuals are entitled to the same rights and protections under the law.
- Justice: Fair treatment implies that similar cases are treated equally.

Everyday Reasoning and Problem Solving

People constantly use the "this equals that" principle to make decisions:

- If two routes take the same time, choose the shorter or more scenic.
- If two products cost the same, consider quality or brand preference.

The Nuances and Limitations of Equality

Equality vs. Equivalence

While "this equals that" suggests strict sameness, sometimes what we mean is equivalence? similar but not identical. For example:

- Different units of measurement (meters vs. feet)
- Different cultural interpretations of fairness

Approximate Equality

In real-world scenarios, exact equality is rare. Instead, we often deal with approximate equality:

- Measurements within a margin of error
- Numerical calculations with rounding

Understanding when approximate equality suffices is vital in science and engineering.

Potential Pitfalls

Misinterpreting equality can lead to errors:

- Assuming two expressions are equal without verifying can cause incorrect conclusions.
- Overlooking the context of equality?such as units or conditions?can lead to misunderstandings.

Advanced Concepts Related to "This Equals That"

Equality in Logic and Computer Science

In programming, the equality operator (==) checks whether two values are identical:

- Used in conditionals and loops.
- Critical for algorithms and data validation.

In formal logic, equality is a fundamental relation that underpins proofs and theorem development.

Mathematical Equivalence and Isomorphism

Beyond simple equality, mathematicians consider structures that are equivalent in form:

- Isomorphism indicates a structural similarity, even if the objects are not strictly equal.
- For example, two graphs may be isomorphic if they have the same structure, even if labeled differently.

Conclusion: Embracing the Power of "This Equals That"

Understanding the principle of "this equals that" is essential across disciplines and daily life. It forms the backbone of logical reasoning, scientific discovery, and fair practices. Recognizing the different types of equality, their applications, and the potential pitfalls ensures precise thinking and effective problem-solving.

Whether in the abstract realm of mathematics or the tangible world of human interactions, the concept of equality helps us establish connections, verify truths, and maintain consistency. As we continue to explore and innovate, the fundamental idea that "this equals that" remains a guiding principle, reminding us of the importance of clarity, precision, and fairness in our pursuits.

Keywords: equality, mathematical equality, logical equivalence, physical equality, conservation laws, "this equals that," equivalence relations, approximate equality, isomorphism, programming, justice, fairness

This equals that: Deciphering the Mathematical and Scientific Foundations of Equivalence

In the realm of science and mathematics, the phrase "this equals that" encapsulates a fundamental principle: the concept of equivalence. Whether in equations, physical laws, or logical statements, understanding what it means for one thing to be equal to another is central to deciphering the universe's underlying structure. From simple arithmetic to complex theories in physics, the idea of equivalence serves as a cornerstone that bridges abstract concepts with tangible phenomena. In this article, we explore the depths of what "this equals that" entails, examining its mathematical foundations, applications across scientific disciplines, and philosophical implications.

The Mathematical Foundations of Equality

Defining Equality in Mathematics

At its core, equality is a relation between two quantities or expressions indicating that they are the same in value or meaning. Mathematically, it is symbolized by the equals sign ($=$). The statement " $a = b$ " asserts that the value of 'a' is identical to that of 'b' under specified conditions.

Key Attributes of Mathematical Equality:

- Reflexivity: Any quantity is equal to itself ($a = a$).
- Symmetry: If $a = b$, then $b = a$.
- Transitivity: If $a = b$ and $b = c$, then $a = c$.

These properties underpin the logical structure of mathematics, ensuring consistency and enabling complex derivations.

Types of Equality

While the basic concept remains the same, different contexts require nuanced understandings of equality:

- Numerical Equality: Indicates that two numbers are the same in value (e.g., $3 + 2 = 5$).
- Structural Equality: In computer science, two data structures are structurally equal if they have the same form and contents.
- Algebraic Equality: When two expressions are equal for all permissible values of variables (e.g., $(a + b)^2 = a^2 + 2ab + b^2$).
- Equivalence Relations: Broader classifications where entities are considered equivalent under certain criteria, such as congruence in geometry.

Understanding these distinctions is crucial when applying the concept of equality across different

mathematical domains.

Equality in Physical Sciences: The Language of Conservation

The Principle of Conservation Laws

In physics, the idea that "this equals that" manifests through conservation laws, which state that certain properties remain invariant within isolated systems over time. These principles are foundational for understanding physical processes and form the backbone of theoretical models.

Major Conservation Laws:

- Conservation of Mass: In classical physics, mass remains constant in a closed system.
- Conservation of Energy: Energy cannot be created or destroyed, only transformed.
- Conservation of Momentum: The total momentum of an isolated system remains constant.

These laws often involve mathematical equations expressing equivalence. For example, the law of conservation of energy is expressed as:

Total initial energy = Total final energy

which illustrates that energy before and after a process remains equal, assuming no external influences.

Einstein's Mass-Energy Equivalence

Perhaps the most famous example of "this equals that" in physics is Einstein's equation:

$$E = mc^2$$

This equation states that energy (E) and mass (m) are interchangeable, connected by the speed of light squared (c^2). It revolutionized our understanding of matter and energy, revealing that mass is a form of stored energy.

Implications:

- Nuclear reactions involve mass converting into energy.
- The equivalence principle underpins technologies like nuclear power and atomic weapons.
- It broadens the classical notion that mass and energy are separate entities, emphasizing their

fundamental equivalence.

The Role of Units and Measurement

In scientific measurements, equality hinges on units. For example, stating that 1 kilogram equals 2.20462 pounds involves a conversion factor, emphasizing that "this" in one system can equal "that" in another, provided the correct conversion is applied.

"This Equals That": Logical and Philosophical Perspectives

Equivalence in Logic

In logic, the notion of equality extends to propositional and predicate logic, where statements can be equivalent if they always have the same truth value under all interpretations.

- Logical Equivalence: Two statements are logically equivalent if they are true in exactly the same models.
- For example, "If it is raining, then the ground is wet" is logically equivalent to "If the ground is not wet, then it is not raining" (by contrapositive).

This form of equivalence is crucial for constructing valid arguments and proofs.

Philosophical Considerations

The concept of "this equals that" also raises philosophical questions about identity and sameness. For instance:

- Identity of Indiscernibles: If two entities share all properties, are they the same?
- Relation of Equivalence: How do we determine when two different representations refer to the same entity?

These questions delve into the nature of reality, perception, and language, illustrating the depth behind what might seem straightforward.

Practical Applications and Examples

Engineering and Technology

- Circuit Design: Equivalence testing ensures that two different circuit configurations produce the same output.
- Data Validation: Checks for data integrity often involve verifying that two datasets are equivalent after transformations.

Computing and Software Development

- Equality Operators: Programming languages include operators (`==`, `===`) to test whether two variables or expressions are equal.
- Hashing and Checksums: Used to verify data integrity by comparing hash values.

Everyday Contexts

- Cooking Recipes: Different ingredients or methods can be equivalent in taste or nutritional value.
- Currency Conversion: Money amounts in different currencies are equivalent when adjusted by exchange rates.

Challenges and Limitations

While "this equals that" appears straightforward, practical issues can complicate matters:

- Approximate Equality: In numerical computations, due to rounding errors, two values may be nearly equal but not exactly.
- Context-Dependent Equality: Cultural, linguistic, or subjective factors may influence what is considered equivalent.
- Complexity in Formal Systems: In higher mathematics, notions like equivalence classes and quotient spaces are necessary to rigorously define and handle equality.

Conclusion: The Power and Precision of Equivalence

"This equals that" is more than a simple statement; it encapsulates a universal principle that underpins scientific understanding, mathematical reasoning, and logical deduction. Recognizing the nuances of equality—its definitions, applications, and limitations—allows us to navigate complex systems, develop technology, and explore philosophical questions about identity and reality.

From Einstein's profound insight into mass and energy to the meticulous checks in programming, the principle of equivalence remains central to our quest to comprehend and describe the universe.

As science advances and systems grow more complex, the rigorous understanding of what "this equals that" entails will continue to be vital, ensuring clarity amidst complexity and precision in a world of infinite variables.

Question What does the phrase 'this equals that' commonly signify in programming? In programming, 'this equals that' often refers to assigning the value of one variable to another, such as using '=' in many languages, indicating that 'this' is being set to the value of 'that'. How can 'this equals that' be used in mathematical equations? In mathematics, 'this equals that' indicates equality between two expressions or values, such as ' $x + 2 = 5$ ', meaning the expression on the left is equal to the value on the right. Is 'this equals that' a common phrase in logical reasoning or philosophy? Yes, it can be used to express equivalence or identity between two concepts or statements, emphasizing that they are identical in meaning or value. Can 'this equals that' be used in everyday language or metaphors? Absolutely. People often use it metaphorically to suggest that two things are the same or interchangeable, like 'What you want is this, and that is what you need; they are essentially the same.' What are some common symbols used to denote 'this equals that' in scientific notation? The most common symbol is the equal sign '=', which indicates that the expressions or quantities on either side are equal in value or meaning.

Related keywords: identity, equality, equivalence, sameness, comparison, congruence, is equal to, identical, equal sign, equivalency

MAYBE THIS TIME

Maybe this time: Embracing Hope and New Beginnings in Life and Entertainment

Introduction

The phrase "**maybe this time**" resonates deeply with many of us, evoking a sense of hope, renewal, and the possibility of positive change. Whether it's about personal growth, romantic relationships, career aspirations, or even the pursuit of happiness, "maybe this time" embodies the universal desire to break free from past disappointments and embrace a brighter future. This article explores the multifaceted significance of "maybe this time," its cultural and emotional implications, and how adopting this mindset can influence our lives positively. We will also delve into its prominent presence in entertainment, especially in music and television, illustrating how this phrase inspires millions around the world.

The Origin and Cultural Significance of ?Maybe This Time?

Historical Context of the Phrase

The phrase "maybe this time" has been ingrained in popular culture for decades, often associated with stories of hope, perseverance, and redemption. Its roots can be traced to various literary and musical works that emphasize the importance of persistence in the face of adversity.

One notable origin is the classic song "Maybe This Time" from the 1962 musical Cabaret, written by John Kander and Fred Ebb. The song is sung by the character Sally Bowles, a woman longing for love and a better life, embodying the hope that her luck will finally change. The lyrics encapsulate a universal longing for a fresh start and the belief that, despite past failures, success might finally be within reach.

Symbolism in Popular Culture

Over the years, "maybe this time" has transcended its musical roots, becoming a symbol of hope and resilience in various contexts:

- Music: Numerous artists have adopted the phrase in their song titles and lyrics, reinforcing its emotional significance.
- Television and Films: Characters often utter "maybe this time" during pivotal moments of decision, emphasizing themes of redemption and second chances.
- Literature and Speeches: The phrase appears in motivational speeches and writings that encourage overcoming obstacles and embracing change.

This cultural presence underscores the universal appeal of the phrase as a beacon of hope.

Emotional and Psychological Implications of "Maybe This Time"

Hope as a Catalyst for Change

Hope is a powerful emotion that fuels human resilience. When individuals adopt the mindset of "maybe this time," they are more likely to persevere through challenges because they believe in the possibility of a positive outcome. Psychologically, this mindset can:

- Increase motivation and effort
- Reduce feelings of despair and hopelessness
- Promote a growth-oriented outlook on life

Research in positive psychology suggests that hope can significantly improve mental health,

resilience, and overall well-being.

The Role of Optimism in Personal Development

"Maybe this time" aligns with optimistic thinking, which involves expecting good things to happen and viewing setbacks as temporary. Incorporating optimism can:

- Enhance problem-solving skills
- Foster better relationships
- Improve physical health

By embracing the idea that "maybe this time" might be different, individuals open themselves up to new opportunities and personal transformation.

Applying the ?Maybe This Time? Mindset in Life

Overcoming Past Failures

Many people struggle with the fear of failure or past disappointments. Adopting a "maybe this time" attitude can help:

- Release lingering regrets
- Encourage trying again after setbacks
- Cultivate resilience and persistence

Tips for moving forward include:

- Reflecting on lessons learned
- Setting realistic goals
- Celebrating small victories

Building Better Relationships

In romantic and personal relationships, "maybe this time" symbolizes hope for reconciliation, trust, and love. It encourages individuals to:

- Forgive past mistakes

- Communicate openly
- Believe in the possibility of renewal

This optimistic outlook can foster deeper connections and healing.

Achieving Career Goals

Professionally, "maybe this time" can motivate individuals to pursue new opportunities or switch career paths. Strategies include:

- Updating skills and knowledge
- Networking and seeking mentorship
- Persisting despite setbacks

Believing that "maybe this time" will bring success can be the driving force behind career breakthroughs.

The Power of ?Maybe This Time? in Entertainment

Music and Lyrics

Songs titled "Maybe This Time" have become anthems of hope and perseverance. For example:

- The original Cabaret song captures longing and the hope for a better future.
- Contemporary artists often use the phrase to express resilience after heartbreak or adversity.

Listening to or singing these songs can inspire listeners to keep faith in new beginnings.

Television and Film Narratives

Many stories feature characters who utter "maybe this time" during crucial moments, symbolizing a turning point. Examples include:

- Romantic comedies where protagonists finally find love after multiple failures.
- Dramas about overcoming obstacles and starting anew.

These narratives reinforce that hope and persistence can lead to positive change.

Inspirational Quotes and Movements

The phrase has been adopted by motivational speakers and self-help movements to encourage individuals to persevere. It is often used in:

- Personal development workshops
- Social media campaigns promoting resilience
- Mental health awareness initiatives

The universal appeal of "maybe this time" makes it a powerful message for collective healing and motivation.

SEO Optimization Tips for Content about ?Maybe This Time?

To ensure this article reaches a wide audience, consider incorporating the following SEO strategies:

- Use relevant keywords naturally throughout the content, such as:
 - "Maybe this time meaning"
 - "Hope and resilience"
 - "Songs titled Maybe This Time"
 - "Overcoming setbacks"
 - "Personal growth motivation"
- Include meta descriptions emphasizing hope, perseverance, and entertainment themes.
- Optimize image alt texts with phrases like "hopeful song lyrics" or "inspirational quotes maybe this time."
- Link to reputable sources or related articles about personal development, music, and entertainment.
- Use long-tail keywords to target specific search intents, e.g., "how to stay hopeful after failure" or "songs that inspire perseverance."

Conclusion: Embracing the Possibility of ?Maybe This Time?

The phrase "**maybe this time**" embodies a universal human desire for renewal, hope, and change. Whether drawn from a beloved musical, expressed in personal struggles, or shared through inspiring stories, it reminds us that each new day offers an opportunity for a fresh start. Embracing this mindset can transform setbacks into stepping stones and dreams into reality. By cultivating hope and resilience, we can face life's uncertainties with optimism and confidence, believing that maybe?just maybe?this time will be different, better, and more fulfilling.

Remember, the power of "maybe this time" lies within us. It is a call to persevere, to believe, and to keep moving forward despite past disappointments. So, the next time life feels challenging, hold on to that hope and whisper to yourself, "maybe this time." The possibilities are endless.

Maybe This Time: A Deep Dive into Hope, Resilience, and Cultural Reflection

Introduction: The Power of "Maybe This Time"

Maybe this time ? a phrase that resonates deeply with anyone who has faced disappointment, uncertainty, or longing for change. It encapsulates a mixture of hope, skepticism, and perseverance, often serving as a mental bridge between despair and optimism. Whether uttered in personal moments of doubt or echoed in cultural narratives, this phrase symbolizes the universal human tendency to cling to hope against all odds. In this article, we explore the origins, cultural significance, and emotional impact of "maybe this time," analyzing its role in shaping individual resilience and societal optimism.

Origins and Cultural Significance

Historical Roots of the Phrase

The phrase "maybe this time" has roots in the collective consciousness of hope and renewal. While its exact origins are difficult to trace, it gained prominence through its frequent use in popular music, television, and literature, often as an expression of tentative optimism. Its recurring presence in storytelling underscores a fundamental human experience: the desire for change and the persistent belief that persistence might eventually lead to success.

The Phrase in Popular Media

One of the most iconic cultural moments featuring "maybe this time" is the 1970s song "Maybe This Time" from the musical Cabaret. Sung by the character Sally Bowles, the song captures a bittersweet longing for love and redemption, embodying hope in the face of repeated heartbreak. Its lyrics articulate the universal wish that, despite past failures, the future might hold better outcomes.

Similarly, the phrase has been used in television dramas and movies to underscore moments of emotional transition. For example, in sitcoms and soap operas, characters often declare "maybe this time" before embarking on new ventures or reconciliations, symbolizing resilience and the willingness to try again.

Psychological Dimensions of "Maybe This Time"

Hope and Cognitive Biases

At its core, "maybe this time" reflects an optimistic bias ? a cognitive tendency to believe that positive outcomes are more likely than they statistically are, especially after setbacks. This bias fuels perseverance, motivating individuals to persist despite repeated failures. Psychologists note that hope, encapsulated in phrases like this, can be a powerful driver of behavior, influencing goal-setting and resilience.

The Balance Between Hope and Realism

While hope is beneficial, excessive optimism may lead to unrealistic expectations. The phrase "maybe this time" embodies a delicate balance: it maintains hope without denying past disappointments. This nuanced stance allows individuals to stay motivated without falling into denial. It encourages a mindset of learning from failures while still believing in the possibility of success.

Emotional Impact and Mental Health

On an emotional level, uttering "maybe this time" can serve as a self-affirming mantra, reinforcing resilience during challenging times. It can act as a psychological shield against despair, providing a sense of agency and control. Conversely, overreliance on this phrase without pragmatic planning can lead to persistent disappointment, highlighting the importance of coupling hope with action.

Societal and Cultural Reflections

"Maybe This Time" as a Collective Anthem

Beyond individual psychology, "maybe this time" has served as a rallying cry during societal struggles. Movements advocating for social justice, political change, or economic reform often carry an undercurrent of hope that, despite setbacks, progress is possible. The phrase embodies collective resilience, inspiring hope during prolonged struggles.

Literature and Political Discourse

In political rhetoric, leaders and activists sometimes invoke "maybe this time" to galvanize support and foster optimism. It encapsulates the belief that persistent effort can lead to societal transformation, even when circumstances seem unfavorable. Literature and poetry also utilize this phrase to explore themes of renewal, redemption, and the cyclical nature of history.

Personal Narratives and Case Studies

Repeated Failures and the Power of Persistence

Many personal stories exemplify the spirit of "maybe this time." Entrepreneurs who face multiple

failures often cite the phrase as a motivation to keep trying. For instance, Thomas Edison famously remarked that he had not failed but found thousands of ways that did not work, embodying the essence of "maybe this time."

The Role in Romantic Relationships

In love and relationships, "maybe this time" often signifies hope for reconciliation or new beginnings. Couples who have experienced betrayal or heartbreak may cling to this hope, believing that circumstances can change. While this optimism can be healing, it also underscores the importance of discernment to avoid cyclical disappointment.

Critical Perspectives: Limitations and Pitfalls

When Hope Turns into Delusion

While hope is vital, clinging to "maybe this time" without realism can lead to stagnation or repeated disappointment. It may foster an avoidance of necessary change or the acknowledgment of insurmountable obstacles. Recognizing when hope is productive versus when it becomes wishful thinking is crucial for emotional well-being.

The Risk of Romanticizing Persistence

Some critics argue that an overemphasis on "maybe this time" can romanticize perseverance at the expense of practical assessment. It can sometimes discourage individuals from recognizing when a path is no longer viable, prompting continued investment in futile endeavors.

Strategies for Embracing "Maybe This Time" Constructively

- **Balancing Hope with Action:** Use "maybe this time" as motivation to plan, prepare, and take concrete steps toward goals.
- **Reflecting on Past Lessons:** Analyze previous failures to inform future attempts, ensuring that hope is grounded in experience.
- **Setting Realistic Expectations:** Maintain optimism while recognizing potential obstacles, fostering resilience without denial.
- **Seeking Support:** Share hopes with trusted others, gaining perspective and encouragement.
- **Practicing Self-Compassion:** Acknowledge setbacks without harsh self-criticism, maintaining a hopeful outlook.

Conclusion: The Enduring Allure of "Maybe This Time"

Maybe this time encapsulates a fundamental aspect of the human condition: our capacity to hope, to believe in change, and to persist despite adversity. Its recurring presence across cultural, personal, and societal domains underscores its significance as a symbol of resilience. While optimism is essential, it must be tempered with realism and action to transform hope into tangible outcomes. As individuals and communities navigate life's uncertainties, embracing the spirit of "maybe this time" with mindful optimism can foster growth, healing, and renewal. Ultimately, it reminds us that hope, when balanced with wisdom, remains a powerful force driving us forward into the possibilities of tomorrow.

Question What is the origin of the phrase 'Maybe This Time'? The phrase gained popularity from the 1970s song 'Maybe This Time' from the musical 'Cabaret,' which expresses hope for love after repeated disappointments. How is 'Maybe This Time' used in popular culture today? It's often used to convey optimism in uncertain situations, and has been referenced in movies, TV shows, and motivational speeches to inspire perseverance and hope. Are there any recent songs titled 'Maybe This Time'? Yes, various artists have released songs with that title in recent years, reflecting themes of hope and new beginnings, such as in pop, country, and R&B genres. What does the phrase 'Maybe This Time' symbolize in personal growth? It symbolizes resilience and the willingness to try again despite past failures, emphasizing optimism and the belief in better outcomes ahead. Has 'Maybe This Time' been used in any notable movies or TV shows? Yes, the phrase or song has appeared in several productions, notably in the musical 'Cabaret,' and has been referenced in various TV dramas and reality shows to highlight moments of hope. Can 'Maybe This Time' be considered a motivational motto? Absolutely, it encapsulates hope and persistence, making it a popular motto for those facing challenges or seeking new opportunities. What are some common themes associated with 'Maybe This Time'? Themes include hope, perseverance, renewal, love, and the possibility of new beginnings after setbacks. How has the meaning of 'Maybe This Time' evolved over the years? While originally tied to romantic hope, it has expanded to broader contexts of personal and professional renewal, symbolizing a resilient outlook on life's uncertainties.

Related keywords: hope, chance, possibility, uncertainty, optimism, perseverance, destiny, affirmation, dreams, second chances

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