

ENGLISH GRAMMAR TESTS MIXED TENSES MULTIPLE CHOICE Tutorial

Mastering English Grammar Tests with Mixed Tenses Multiple Choice Questions

English grammar tests mixed tenses multiple choice are an essential tool for learners aiming to improve their understanding of verb tenses and their correct usage within different contexts. These tests challenge students to recognize and apply various tenses—such as present, past, future, perfect, continuous, and perfect continuous—often within a single question. Practicing these types of questions helps learners develop a strong grasp of English grammar rules and enhances their ability to communicate accurately and confidently in both written and spoken English.

In this comprehensive guide, we'll explore the importance of mixed tenses in grammar assessments, provide sample questions, tips for mastering these tests, and resources for further practice.

Understanding the Importance of Mixed Tenses in English Grammar

Why Are Mixed Tense Tests Essential?

Mixed tense tests are crucial because they:

- Reflect real-life language use, where different tenses often appear in the same sentence or paragraph.
- Help identify learners' strengths and weaknesses across various tenses.
- Enhance understanding of tense consistency and sequencing in complex sentences.
- Prepare students for standardized exams like IELTS, TOEFL, or school-level assessments that include mixed tense questions.

Common Challenges Faced by Learners

Many students struggle with:

- Choosing the correct tense among similar options.
- Maintaining tense consistency within sentences or paragraphs.

- Understanding subtle differences between tenses, such as present perfect vs. simple present.
- Applying tense rules in context, especially with time expressions.

Types of Mixed Tenses Multiple Choice Questions

Basic Examples

Here are some common formats you might encounter:

- Complete the sentence with the correct tense:
- Choose the correct option that best fits the context:
- Identify the incorrect tense usage in a sentence:
- Match sentences with appropriate tense forms based on time clues:

Complex Sentence Structures

These involve multiple clauses and require understanding of tense relationships:

- Example: "By the time she ____ (arrive), we ____ (leave) the house."
- Options:

- a) arrives, leave
- b) arrived, left
- c) will arrive, will leave
- d) has arrived, have left

Sample Mixed Tenses Multiple Choice Questions

Question 1

Choose the correct option to complete the sentence:

She ____ (study) English for five years, but she ____ (not/try) speaking with native speakers yet.

- a) has been studying / has not tried

- b) studied / did not try
- c) is studying / does not try
- d) studies / is not trying

Answer: a) has been studying / has not tried

Question 2

Identify the correct tense form:

By next year, I ____ (finish) my degree and ____ (start) working full-time.

- a) will finish / will start
- b) will have finished / will have started
- c) finished / started
- d) have finished / have started

Answer: b) will have finished / will have started

Question 3

Select the sentence with correct tense usage:

- a) She was cooking dinner when I arrived.
- b) She cooks dinner when I arrived.
- c) She has cooked dinner when I arrived.
- d) She will cook dinner when I arrived.

Answer: a) She was cooking dinner when I arrived.

Tips for Approaching Mixed Tenses Multiple Choice Tests

1. Understand the Context Clearly

Before selecting an answer, read the entire sentence carefully, paying attention to time expressions like yesterday, now, tomorrow, recently, ever, since, for, by the time. These clues help determine the correct tense.

2. Identify the Primary Time Frame

Determine whether the sentence refers to the past, present, or future, then choose the tense accordingly.

3. Watch for Signal Words and Phrases

Some words are strong indicators of specific tenses:

- Present Perfect: already, yet, just, ever, never, since, for
- Past Simple: yesterday, last year, in 2010, ago
- Future Simple: tomorrow, next week, in the future, soon
- Present Continuous: now, at the moment, currently

4. Focus on Verb Forms and Auxiliary Verbs

Ensure the auxiliary verb agrees with the tense:

- Have/has/had for perfect tenses
- Be (am/is/are/was/were) for continuous/progressive tenses

5. Check for Tense Consistency

Avoid switching tenses unnecessarily unless the context indicates a change in time frame.

Strategies for Practice and Improvement

1. Regular Practice with Sample Questions

Consistent practice helps recognize patterns and common mistake areas. Use online quizzes, worksheets, and mobile apps dedicated to tense exercises.

2. Focused Review of Tense Rules

Create a summary chart of tense forms, uses, and time markers to reference during practice.

3. Time-Linked Practice Sessions

Simulate exam conditions by timing your responses to improve speed and accuracy.

4. Analyze Mistakes Carefully

Review incorrect answers to understand why a particular tense was wrong, reinforcing learning.

Resources for Further Practice

Online Platforms and Websites

- Perfect English Grammar: Offers free exercises on all tenses with explanations.
- EnglishPage.com: Provides detailed tense lessons and quizzes.
- British Council - LearnEnglish: Interactive exercises and practice tests.
- Agenda Web: Multiple-choice tense exercises sorted by difficulty.

Mobile Apps

- Duolingo: Engaging practice with tense exercises integrated into lessons.
- Quizlet: Flashcards and quizzes focusing on verb tenses.
- English Grammar in Use: Practice app based on the popular grammar book.

Books and PDFs

- English Grammar in Use by Raymond Murphy: Contains exercises on mixed tenses.
- Practice Tests for English Tenses (available online as PDFs).

Conclusion

Mastering english grammar tests mixed tenses multiple choice questions is a vital step toward fluency and accuracy in English. By understanding the rules, recognizing contextual clues, and practicing regularly with diverse questions, learners can confidently navigate complex sentences involving multiple tenses. Remember to focus on understanding the underlying principles, use available resources effectively, and consistently challenge yourself with practice tests. Over time, this disciplined approach will lead to significant improvement in your grammatical skills and overall language proficiency.

English grammar tests mixed tenses multiple choice exercises are an essential component of language learning assessments. They serve as effective tools for evaluating a learner's mastery of English verb tenses, their ability to distinguish between different time frames, and their overall grammatical accuracy. These tests often feature a variety of questions that challenge students to select the correct tense in diverse contexts, thereby reinforcing their understanding of how verb forms function within sentences. Whether used in classroom settings, online quizzes, or self-study modules, english grammar tests mixed tenses multiple choice exercises are designed to enhance both comprehension and application skills, making them invaluable for learners aiming to achieve fluency and grammatical precision.

Understanding the Importance of Mixed Tenses in English Grammar Tests

English is a language rich with tenses that convey timing, aspect, and mood. From simple present and past to complex perfect and continuous forms, mastering these tenses is fundamental for clear communication. The challenge for many learners lies in distinguishing when to apply each tense correctly, especially in nuanced contexts.

English grammar tests mixed tenses multiple choice questions are specifically crafted to assess this knowledge by presenting sentences with missing verbs and offering multiple options. This format encourages learners to think critically about the context, the intended meaning, and the grammatical rules governing tense usage.

The Structure of Multiple Choice Questions in Tense Tests

Multiple choice questions (MCQs) are popular because they:

- Test comprehension rather than recall alone.
- Allow quick assessment of different tenses in various contexts.
- Provide immediate feedback for learners to identify areas of weakness.

Typically, a question will present a sentence with a blank space where a verb should be, followed by four or five options. For example:

She ____ to the gym every morning.

- a) go
- b) goes
- c) went

d) will go

The correct answer here is b) goes, which tests the learner's understanding of the simple present tense used for habitual actions.

Key Tenses Frequently Featured in Mixed Tense Tests

To excel in english grammar tests mixed tenses multiple choice, learners should familiarize themselves with the primary tenses and their typical uses. Here's an overview:

- Present Tenses

- Simple Present: Used for habitual actions, facts, and general truths.

Example: She reads every evening.

- Present Continuous: Describes actions happening now or around the current time.

Example: They are studying for exams.

- Present Perfect: Highlights actions completed recently or with relevance to the present.

Example: I have finished my homework.

- Present Perfect Continuous: Emphasizes the duration of an ongoing action.

Example: He has been working here for five years.

- Past Tenses

- Simple Past: Refers to completed actions in the past.

Example: They visited Paris last year.

- Past Continuous: Describes ongoing past actions.

Example: I was reading when she called.

- Past Perfect: Indicates an action completed before another past action.

Example: She had left before I arrived.

- Past Perfect Continuous: Focuses on the duration of a past action before another past event.

Example: We had been waiting for an hour.

- Future Tenses

- Simple Future: Expresses future intentions or predictions.

Example: I will go to the store tomorrow.

- Future Continuous: Describes ongoing future actions.

Example: This time next week, I will be traveling.

- Future Perfect: Denotes an action completed before a specific future time.

Example: By next year, she will have graduated.

- Future Perfect Continuous: Emphasizes the duration of a future ongoing action.

Example: By then, I will have been working here for ten years.

Strategies for Approaching Mixed Tense Multiple Choice Questions

Successfully navigating english grammar tests mixed tenses multiple choice exercises requires strategic thinking. Here are effective approaches:

- Understand the Context

Identify clues within the sentence that indicate the time frame:

- Words like yesterday, last year suggest past tense.
- Now, currently, at the moment point to present tense.
- Tomorrow, next week, soon indicate future tense.

- Recognize Signal Words

Certain words often accompany specific tenses:

- Present Perfect: already, yet, ever, never
- Past Continuous: while, when, as
- Future Perfect: by the time, before

Being aware of these indicators helps narrow down choices.

- Focus on Verb Forms and Endings

Pay close attention to verb endings:

- -ed for regular past forms
- have/has + past participle for perfect tenses
- be + -ing for continuous tenses

- Eliminate Clearly Wrong Options

Cross out options that do not fit the context or grammatical rules, making the decision easier.

- Practice Regularly

Consistent practice with varied questions improves both recognition and application skills.

Sample Mixed Tense Multiple Choice Questions

Below are sample questions illustrating typical english grammar tests mixed tenses multiple choice formats:

Question 1:

They ____ a new house next year.

- a) buy
- b) will buy
- c) bought
- d) are buying

Correct answer: b) will buy ? future simple tense indicating a planned action.

Question 2:

She ____ her keys when I called her.

- a) loses
- b) lost
- c) was losing
- d) has lost

Correct answer: c) was losing ? past continuous, describing an ongoing action in the past.

Question 3:

By the time he arrives, we ____ dinner.

- a) will finish
- b) will have finished

c) finished

d) are finishing

Correct answer: b) will have finished ? future perfect tense to show completion before a future point.

Tips for Teachers and Test Makers

Creating effective english grammar tests mixed tenses multiple choice items involves careful planning:

- Use sentences that clearly exemplify the tense being tested.
- Incorporate distractors that are plausible but incorrect, to challenge learners.
- Mix tenses within a single test to assess comprehensive understanding.
- Provide explanations or answer keys that clarify why certain options are correct or wrong.

Final Thoughts

Mastering english grammar tests mixed tenses multiple choice exercises is a vital step toward fluency and grammatical accuracy in English. By understanding the nuances of each tense, recognizing contextual clues, and practicing regularly with diverse questions, learners can significantly improve their ability to choose the correct tense confidently. Whether preparing for exams, improving writing skills, or enhancing conversational fluency, honing this skill will serve as a strong foundation for effective communication in English. Embrace the challenge, and use these exercises as a pathway to greater grammatical mastery.

Question What is the primary purpose of mixed tense English grammar tests? They evaluate a learner's ability to correctly identify and use various verb tenses in different contexts, ensuring comprehensive understanding of tense usage. Which tense is used in the sentence: 'She has been working here since 2010'? Present perfect continuous tense. Choose the correct option: 'By the time he arrived, they ___ already ___ (leave).' had left In a multiple-choice question, what indicates the correct answer for tense usage? The option that accurately reflects the time frame and aspect of the action described in the sentence context. Which of the following sentences correctly uses the past perfect tense? 'They had finished their homework before dinner.' What is a common mistake students make in mixed tense tests? Confusing similar tenses, such as present perfect and present perfect continuous, or choosing the wrong tense based on time indicators. How can practicing mixed tense multiple choice tests improve English grammar skills? It helps learners recognize correct tense forms, understand context-based tense usage, and become more confident in applying varied tenses accurately.

Related keywords: English grammar, mixed tenses, multiple choice questions, grammar tests, tense exercises, English quiz, verb tenses, grammar practice, tense revision, language assessment

MULTIPLE CHOICE

Multiple Choice

Multiple Choice: Unlocking the Power of Effective Assessment

multiple choice questions have become a staple in education, standardized testing, and

even professional certifications. Their widespread use is no accident—they offer a practical and efficient way to evaluate knowledge across countless subjects and skill levels. But beyond their simplicity, multiple choice formats hold a unique versatility that, when crafted thoughtfully, can truly enhance learning and assessment outcomes.

Understanding the nuances of multiple choice questions can help educators, test designers, and students alike make the most of this ubiquitous format. Whether you're preparing for an exam, designing a quiz, or just curious about how multiple choice questions work behind the scenes, diving deeper into their structure and purpose can reveal surprising insights.

What Makes Multiple Choice Questions So Popular?

At its core, a multiple choice question presents a prompt with several possible answers, typically one correct answer and several distractors. This format's popularity stems from several advantages:

Efficiency in grading: Multiple choice tests can be scored quickly and objectively, often by automated systems. This is especially valuable for large-scale testing.

Coverage of a wide range of content: Because questions are concise, it's possible to test many topics within a single exam.

Clarity and focus: Well-written questions can precisely target key concepts without ambiguity.

Diagnostic potential: The pattern of answers chosen by test-takers can provide insights into common misconceptions or areas needing reinforcement.

Common Formats and Variations

While the classic multiple choice question involves selecting one correct answer from four or five options, there are several variations worth noting:

Multiple response questions: Require selecting more than one correct answer.

True/False questions: A simplified two-option multiple choice format.

Matching questions: Pairing items from two lists.

Negative questions: Ask test-takers to choose the option that is NOT correct.

These variations can add complexity and assess different cognitive skills, such as critical thinking and attention to detail.

Crafting Effective Multiple Choice Questions

Creating high-quality multiple choice questions is an art as much as a science. Poorly designed questions can confuse learners or even misrepresent their knowledge. Here are

some tips to ensure your questions serve their purpose well.

Focus on Clear and Concise Wording

Ambiguity is the enemy of good assessment. The stem—the question or statement—should be straightforward and free of unnecessary jargon. Avoid double negatives or complex sentence structures that may distract from the content being tested.

Design Plausible Distractors

Distractors, the incorrect answer choices, should be plausible enough to challenge learners who do not fully understand the material. Distractors that are obviously wrong can make the question too easy and fail to discriminate between different knowledge levels.

Avoid Clues and Patterns

Sometimes unconscious patterns emerge in answer choices, such as the correct answer frequently being the longest option or consistently placed in the same position. Test designers must randomize answer order and avoid hints that could skew results.

Advantages and Limitations of Multiple Choice Assessments

Just like any assessment tool, multiple choice questions come with their strengths and weaknesses. Understanding these can help educators and learners use them more effectively.

Advantages

****Objective grading:**** Minimizes scorer bias.

****Broad content coverage:**** Allows testing of many topics in limited time.

****Efficient for large groups:**** Suitable for mass testing scenarios.

****Immediate feedback potential:**** Can be integrated into digital platforms for instant results.

Limitations

****Surface-level assessment:**** May encourage memorization rather than deep understanding.

****Guessing factor:**** Test-takers can guess answers, potentially inflating scores.

****Constructing quality questions is time-consuming:**** Writing effective distractors and clear stems requires skill.

****Limited assessment of complex skills:**** Multiple choice may not effectively evaluate creativity, synthesis, or practical application.

How Students Can Master Multiple Choice Tests

For students, multiple choice exams might seem straightforward but can be tricky without proper strategies. Here are some practical tips to boost performance:

Read Each Question Carefully

Begin by thoroughly understanding what the question asks. Look for keywords or qualifiers such as "except," "not," or "all of the above" that can change the meaning.

Eliminate Obviously Wrong Answers

Narrow down your options by crossing out choices you know are incorrect. This increases

your chances if you need to guess.

Be Wary of Absolutes

Answers containing absolute terms like "always," "never," or "only" are often traps because few statements are universally true.

Use Logical Reasoning

Even if you're unsure of the correct answer, use what you know to reason through the options. Sometimes understanding the context or recalling related information can guide you.

Manage Your Time Wisely

Avoid spending too long on any single question. If stuck, mark it and return later if time permits.

Multiple Choice in the Digital Age

Technology has transformed how multiple choice assessments are delivered and analyzed. Online platforms allow for interactive quizzes, adaptive testing, and instant feedback, making learning more dynamic.

Adaptive Testing

Adaptive multiple choice tests adjust question difficulty based on the test-taker's performance in real-time. This personalization can provide more accurate assessments of ability.

Data Analytics and Insights

Digital test systems can track detailed response patterns, helping educators identify common errors or concepts that need review. This data-driven approach enhances instructional effectiveness.

Gamification and Engagement

Incorporating game-like elements into multiple choice quizzes, such as timed challenges or leaderboards, can boost motivation and engagement, especially in e-learning environments.

The Role of Multiple Choice Beyond Education

While education is the most familiar setting, multiple choice questions have applications in many other fields:

Job recruitment: Many companies use multiple choice tests to screen candidates' skills and knowledge efficiently.

Certification and licensure: Professional exams often rely heavily on multiple choice to validate competencies.

Market research: Surveys with multiple choice options help gather consumer preferences and opinions in a structured way.

Psychological assessments: Standardized tests sometimes incorporate multiple choice items to measure traits or cognitive functions.

This versatility underscores the foundational role multiple choice questions play in various knowledge-based activities.

Exploring multiple choice questions beyond their face value reveals a rich landscape of

design principles, psychological insights, and technological innovations. Whether you're an educator looking to sharpen your assessments or a learner aiming to improve test-taking skills, understanding the intricacies of multiple choice can make a meaningful difference. The next time you encounter a multiple choice test, you might appreciate the subtle craftsmanship behind each question and the strategic thinking it invites from both the writer and the respondent.

Question

Answer

What are the advantages of multiple choice questions in assessments?

Multiple choice questions allow for quick and objective grading, cover a broad range of content, and can assess different levels of understanding efficiently.

How can multiple choice questions be designed to test higher-order thinking skills?

By creating questions that require analysis, application, or evaluation rather than simple recall, such as case-based scenarios or questions with closely

related answer choices.

What strategies can help

students improve their

performance on multiple

choice exams?

Students can practice active reading of all options,

eliminate clearly wrong answers, manage their time

effectively, and review concepts regularly to build

strong understanding.

How do multiple choice

questions differ from other

question types in online

learning platforms?

They offer automatic grading, immediate feedback,

and standardized assessment, unlike essay or short

answer questions which often require manual

evaluation.

What are common pitfalls to

avoid when creating multiple

choice questions?

Avoid ambiguous wording, implausible distractors,

clues within the question, and overly complex or trick

questions that may confuse test-takers.

Can multiple choice questions

effectively assess practical

skills?

While multiple choice questions can assess theoretical

knowledge of practical skills, they are less effective for

evaluating hands-on abilities which often require

performance-based assessments.

How has technology enhanced

the use of multiple choice

questions in education?

Technology enables interactive quizzes, adaptive

testing, instant feedback, analytics on student

performance, and integration with multimedia to enrich

multiple choice assessments.

Multiple Choice: An In-Depth Exploration of Its Role in Education and Assessment

multiple choice questions have long been a staple in educational assessments,

corporate training, and standardized testing. Their widespread use is a testament to their

efficiency and versatility in evaluating knowledge across diverse domains. However, the

multiple choice format is not without its complexities and criticisms. This article delves into the multifaceted role of multiple choice questions (MCQs), examining their design, advantages, limitations, and evolving applications in modern learning environments.

The Anatomy of Multiple Choice Questions

At its core, a multiple choice question consists of a stem—a prompt or question—and a set of answer options, typically including one correct answer and several distractors. The goal is to assess a respondent's knowledge or understanding by selecting the best answer from the given choices. The structure seems straightforward, but the effectiveness of an MCQ depends heavily on how well it is constructed.

Key Components and Design Principles

Effective multiple choice questions carefully balance clarity and challenge. The stem must be concise yet sufficiently detailed to avoid ambiguity. Distractors, or incorrect options, should be plausible enough to test the depth of knowledge without misleading test-takers unfairly. Poorly designed distractors—either too obviously incorrect or too similar to the correct answer—can skew results and reduce the validity of the assessment.

The number of options per question varies but traditionally ranges from three to five. Research indicates that three to four options tend to optimize test reliability and reduce guessing without overwhelming the test-taker. Moreover, well-crafted MCQs can evaluate not only rote memorization but also higher-order thinking skills such as application, analysis, and evaluation when scenarios or problem-solving elements are included in the stem.

Advantages of Multiple Choice Assessments

Multiple choice testing offers several practical benefits that contribute to its continued dominance in various fields.

Efficiency in Administration: MCQs can be administered to large groups

1.
simultaneously, making them ideal for standardized exams and large classrooms.

Objective Scoring: The clear right-or-wrong nature of MCQs allows for automated

2.
grading, eliminating subjective bias and reducing grading time significantly.

Wide Coverage of Content: Exams can cover a broad range of topics in a limited

3.
time, allowing educators to assess comprehensive understanding.

Immediate Feedback Potential: Digital platforms enable instant scoring and

4.
feedback, facilitating adaptive learning and self-assessment.

These advantages make multiple choice questions particularly valuable in environments where consistency, speed, and scalability are priorities.

Applications Across Different Sectors

Beyond education, multiple choice formats are extensively used in professional

certification, recruitment testing, and even psychological assessments. For instance, licensing exams for medical, legal, and technical professions rely heavily on MCQs to standardize competency evaluation. In corporate settings, multiple choice quizzes serve as tools for compliance training and skills verification.

Challenges and Criticisms of Multiple Choice Questions

Despite their popularity, multiple choice questions are not without drawbacks. Critics often highlight concerns related to the depth of learning assessment and potential for test-taking strategies that undermine true understanding.

Limitations in Measuring Complex Cognition

One common critique is that multiple choice formats primarily assess recognition rather than recall or synthesis. Because test-takers can often guess the correct answer, the format may fail to distinguish between superficial familiarity and genuine mastery. Unlike open-ended questions or essays, MCQs may not fully capture the nuances of critical thinking or creative problem-solving.

Design Pitfalls and Bias

The quality of multiple choice assessments is highly dependent on item construction. Poorly written questions can introduce bias, confuse test-takers, or encourage guessing. For example, culturally specific references or ambiguous wording may disadvantage certain groups, raising concerns about fairness and inclusivity. Furthermore, the presence of "all of the above" or "none of the above" options, while common, can sometimes lead to test-taking strategies that reduce the reliability of the

assessment. Effective multiple choice question design requires expertise and iterative review to minimize these issues.

Innovations and Future Directions in Multiple Choice Testing

The advent of digital technology and data analytics has begun to transform multiple choice assessments, addressing some traditional limitations while opening new possibilities.

Adaptive Testing and Personalized Learning

Computerized adaptive testing (CAT) tailors the difficulty of questions based on the test-taker's previous responses. By integrating multiple choice formats into adaptive systems, assessments can more accurately gauge ability levels while reducing test length and fatigue. This approach enhances the precision and fairness of testing in educational and professional contexts.

Integrating Multimedia and Interactive Elements

Modern multiple choice questions increasingly incorporate multimedia components such as images, audio clips, or video scenarios. This shift allows for more authentic and engaging assessments, particularly in fields like medicine, language learning, and vocational training. Interactive MCQs can simulate real-world decision-making environments, pushing beyond simple recall to application and analysis.

Data-Driven Item Analysis

Advanced analytics enable educators and test developers to scrutinize item performance

rigorously. Metrics such as item difficulty, discrimination indices, and distractor effectiveness help refine question banks and ensure validity. Continuous improvement based on empirical data enhances the credibility and fairness of multiple choice assessments.

Best Practices for Crafting Effective Multiple Choice Questions

Creating high-quality multiple choice questions requires attention to detail and adherence to best practices.

Focus on Clear and Concise Wording: Avoid unnecessary complexity in the stem

1.
and answer choices to reduce confusion.

Use Plausible Distractors: Distractors should be reasonable yet clearly incorrect

2.
to challenge knowledge.

Avoid Clues: Ensure that the correct answer is not hinted at by grammatical cues

3.
or patterning.

Balance Difficulty: Include a mix of easy, moderate, and challenging questions to

4.
differentiate levels of understanding.

Test One Concept per Question: Prevent cognitive overload by focusing each

5.

question on a single idea.

Such guidelines help maximize the diagnostic power of multiple choice questions and support fair assessment.

The ongoing evolution of multiple choice testing reflects its enduring relevance and adaptability. While it may not be perfect, the format's efficiency and scalability make it indispensable in many evaluative contexts. As technology advances and educational paradigms shift, multiple choice questions will likely continue to evolve, balancing tradition with innovation to meet the demands of future learners and professionals.

multiple choice questions, MCQ, multiple choice test, multiple choice answers, multiple choice exam, multiple choice format, multiple choice quiz, multiple choice options, multiple choice assessment, multiple choice problems

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