

Prentice hall chemistry practice problem answers Complete Guide

Prentice Hall Chemistry Practice Problem Answers

When studying chemistry, practicing problems is essential to reinforce understanding and improve problem-solving skills. **Prentice Hall Chemistry Practice Problem Answers** serve as valuable resources that help students verify their work, understand correct methodologies, and deepen their grasp of key concepts. This comprehensive guide aims to provide detailed explanations and solutions to common practice problems found in Prentice Hall's chemistry textbooks, ensuring students can confidently approach their assignments and exams.

Understanding the Importance of Practice Problem Answers

Why Practice Problems Matter

Practicing problems helps students:

- Apply theoretical knowledge to real-world scenarios.
- Identify areas of weakness that require further study.
- Develop critical thinking and analytical skills.
- Prepare effectively for quizzes, tests, and standardized exams.

Role of Practice Problem Answers

Answers serve as:

- Guidance for self-assessment.
- Clarification of complex concepts.
- Tools for verifying accuracy and understanding mistakes.
- Resources for teachers and tutors to assist students effectively.

Common Types of Practice Problems in Prentice Hall Chemistry

Stoichiometry Problems

These problems involve calculations based on mole ratios, limiting reactants, and theoretical yields.

Atomic Structure and Periodic Table

Questions focus on electron configurations, atomic masses, and periodic trends.

Chemical Bonding and Molecular Geometry

Problems require understanding of ionic and covalent bonds, VSEPR theory, and polarity.

Thermochemistry

Includes enthalpy calculations, calorimetry, and Hess's law.

Gas Laws

Problems involve Boyle's, Charles's, Gay-Lussac's, and ideal gas law calculations.

Solutions and Concentrations

Questions on molarity, molality, dilution, and solution preparation.

Acids, Bases, and pH

Problems on pH calculations, titrations, and acid-base reactions.

How to Approach Prentice Hall Chemistry Practice Problems

Step-by-Step Problem-Solving Strategy

To effectively solve problems:

- Read the problem carefully to understand what is being asked.
- Identify knowns and unknowns.
- Write relevant chemical equations or formulas.
- Use appropriate mathematical relationships and conversion factors.
- Solve systematically, checking units and significant figures.
- Verify your answer for reasonableness and accuracy.

Common Mistakes to Avoid

- Overlooking units or misapplying unit conversions.
- Ignoring significant figures, leading to inaccurate results.
- Using incorrect formulas or assumptions.
- Failing to double-check calculations or logic.

Sample Practice Problems with Detailed Solutions

Problem 1: Stoichiometry

Question: How many grams of water are produced when 8.0 grams of hydrogen gas react with excess oxygen?

Solution:

- Write the balanced chemical equation:
$$2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$$
- Calculate moles of hydrogen:
Molar mass of $\text{H}_2 = 2.0 \text{ g/mol}$
Moles of $\text{H}_2 = 8.0 \text{ g} / 2.0 \text{ g/mol} = 4.0 \text{ mol}$
- Use mole ratio to find moles of water:
2 mol H_2 produce 2 mol H_2O , so ratio is 1:1
Moles of $\text{H}_2\text{O} = 4.0 \text{ mol}$
- Convert moles of water to grams:
Molar mass of $\text{H}_2\text{O} = 18.0 \text{ g/mol}$
Mass of $\text{H}_2\text{O} = 4.0 \text{ mol} \times 18.0 \text{ g/mol} = 72 \text{ g}$
- Answer: 72 grams of water are produced.

Problem 2: Gas Law Calculation

Question: What volume will 1.50 mol of an ideal gas occupy at 25°C and 1 atm pressure?

Solution:

- Use the ideal gas law: $PV = nRT$
- Constants:
 - $R = 0.0821 \text{ L}\cdot\text{atm}/(\text{mol}\cdot\text{K})$
 - Temperature $T = 25^\circ\text{C} + 273 = 298 \text{ K}$
- Calculate volume:
 - $V = nRT / P$
 - $V = (1.50 \text{ mol} \times 0.0821 \text{ L}\cdot\text{atm}/(\text{mol}\cdot\text{K}) \times 298 \text{ K}) / 1 \text{ atm}$
 - $V = (1.50 \times 0.0821 \times 298) / 1$
 - $V = (1.50 \times 24.45) = 36.675 \text{ L}$
- Answer: The gas occupies approximately 36.68 liters.

Problem 3: pH Calculation

Question: What is the pH of a solution with a hydrogen ion concentration of $1.0 \times 10^{-5} \text{ M}$?

Solution:

- Recall the pH formula:
 - $\text{pH} = -\log[\text{H}^+]$
- Calculate pH:
 - $\text{pH} = -\log(1.0 \times 10^{-5}) = 5$
- Answer: The pH of the solution is 5.

Resources for Finding Practice Problem Answers

Textbook Solutions Manuals

Many editions of Prentice Hall Chemistry include solutions manuals that provide detailed answers and explanations for practice problems. These can often be accessed through:

- School libraries

- Online educational platforms
- Official publisher websites

Online Educational Resources

Websites such as Khan Academy, ChemCollective, and other chemistry educational sites offer:

- Sample problems with step-by-step solutions
- Video tutorials
- Practice quizzes

Study Groups and Tutors

Collaborative learning and expert guidance can clarify difficult problems and reinforce comprehension.

Tips for Effectively Using Practice Problem Answers

- Attempt problems on your own before consulting answers.
- Compare your solutions with the provided answers to identify discrepancies.
- Analyze mistakes to understand where your reasoning was flawed.
- Revisit foundational concepts if you encounter recurring errors.
- Practice regularly to build confidence and mastery.

Conclusion

Mastering chemistry requires consistent practice and understanding of core principles. **Prentice Hall Chemistry Practice Problem Answers** are invaluable tools in this journey, offering clarity and guidance for solving a wide array of problems. By approaching practice problems methodically, leveraging available resources, and reviewing solutions thoroughly, students can enhance their problem-solving skills and achieve academic success in chemistry. Remember, the key to proficiency lies in persistent practice and continuous learning.

Prentice Hall Chemistry Practice Problem Answers are an essential resource for students and educators aiming to master the fundamentals of chemistry. These solutions serve as a guide to reinforce learning, clarify complex concepts, and develop problem-solving skills. As one of the most widely used educational publishers, Prentice Hall offers comprehensive practice problems accompanied by detailed answers, which are crucial for self-assessment and exam preparation.

Overview of Prentice Hall Chemistry Practice Problem Answers

Prentice Hall's Chemistry curriculum emphasizes a balanced approach that combines theory with practical problem-solving. The practice problem answers are designed to complement textbook exercises, providing step-by-step solutions that help students understand the reasoning behind each answer. These resources are widely appreciated for their clarity and thoroughness, making them a valuable tool in both classroom and independent study settings.

Features of Prentice Hall Chemistry Practice Problem Answers:

- Detailed Step-by-Step Solutions: Each problem is broken down into logical steps, fostering comprehension.
- Alignment with Textbook Content: Answers directly relate to the problems presented in the textbook, ensuring consistency.
- Coverage of Key Topics: From atomic structure to chemical reactions, the solutions span the entire curriculum.
- Availability in Multiple Formats: Typically accessible via textbook companion websites, downloadable PDFs, or print editions.

Pros:

- Enhances understanding through clear explanations.
- Encourages independent learning and self-assessment.
- Useful for both students and teachers for grading and review.
- Facilitates quick revision before exams.

Cons:

- May sometimes oversimplify complex problems.
- Relying solely on answers without understanding the problem-solving process can hinder deep learning.
- Variations in editions might result in discrepancies in problem numbering or solutions.

Importance of Practice Problem Answers in Chemistry Education

Chemistry is a subject that demands a solid grasp of concepts coupled with strong problem-solving skills. Practice problem answers serve multiple educational purposes:

Reinforcing Conceptual Understanding

By working through problems and then reviewing detailed solutions, students can identify where their understanding may be lacking. For example, if a student struggles with stoichiometry calculations, examining the answer can clarify the correct approach and common pitfalls.

Building Problem-Solving Skills

Chemistry problems often involve multiple steps, requiring logical reasoning. Step-by-step solutions teach students how to break down complex questions into manageable parts, fostering analytical thinking.

Preparing for Assessments

Practice problem answers enable students to simulate exam conditions by attempting questions independently and then checking their solutions. This process boosts confidence and reduces exam anxiety.

Supporting Teachers

Educators can use these answers for grading, creating supplementary materials, or designing classroom discussions around common mistakes and misconceptions.

Key Topics Covered in Practice Problem Answers

Prentice Hall's practice problem solutions encompass a broad spectrum of chemistry topics. Below are some of the core areas commonly addressed:

Atomic Structure and Periodicity

- Electron configurations
- Atomic orbitals
- Periodic trends

Chemical Bonding and Molecular Geometry

- Ionic and covalent bonds
- Lewis structures
- VSEPR theory

Stoichiometry and Chemical Reactions

- Balancing equations
- Mole calculations
- Limiting reactants

States of Matter and Solutions

- Gas laws
- Solution concentration
- Colligative properties

Thermodynamics and Kinetics

- Heat transfer
- Activation energy
- Reaction rates

Equilibrium and Acids/Bases

- Equilibrium constants
- pH calculations
- Titration problems

The answers provided for these topics are tailored to reinforce conceptual clarity and practical application.

How to Effectively Use Prentice Hall Practice Problem Answers

While these answer keys are invaluable, their effectiveness depends on how they are used. Here are some strategies for maximizing their benefits:

Attempt Problems Independently First

Before consulting the solutions, students should try solving problems on their own. This initial effort fosters critical thinking and highlights areas needing improvement.

Review Step-by-Step Solutions Carefully

Analyze each step in the answer to understand the reasoning. If a step is unclear, revisit relevant concepts in the textbook or seek additional resources.

Identify Patterns and Common Errors

Pay attention to recurring mistakes in calculations or reasoning, which can inform targeted review sessions.

Use Solutions as Teaching Tools

Teachers can incorporate problem answers into classroom activities, such as group problem-solving or peer review sessions.

Supplement with Practice

Don't rely solely on answer keys. Complement practice problems with additional exercises, labs, and conceptual quizzes.

Limitations and Considerations

Despite their usefulness, there are some limitations to be aware of:

- Potential for Over-Reliance: Students might become dependent on answers rather than developing independent problem-solving skills.
- Edition Variations: Different editions of the textbook may have different problems; ensure you're referencing the correct solutions.
- Lack of Conceptual Explanation: Some answer keys focus on the final answer, providing less insight into underlying principles unless carefully reviewed.
- Need for Supplementary Resources: Complex topics may require additional tutorials, videos, or instructor guidance for full mastery.

Conclusion

Prentice Hall Chemistry Practice Problem Answers are a cornerstone resource for effective learning and teaching in chemistry. They bridge the gap between theoretical knowledge and practical application, enabling students to check their work, understand mistakes, and build confidence. When used thoughtfully and in conjunction with active problem-solving, these solutions can significantly improve comprehension and performance in chemistry courses.

To maximize their benefits, students should approach these answers as learning tools rather than shortcuts, ensuring they develop a deep understanding of fundamental concepts. Educators, on the other hand, can leverage these solutions to foster engaging classroom discussions and reinforce key learning objectives. Overall, Prentice Hall's practice problem answers are a valuable asset in the journey toward mastering chemistry.

Question Where can I find the answer keys for Prentice Hall Chemistry practice problems? **Answer** keys for Prentice Hall Chemistry practice problems are typically available in the back of the textbook, on the instructor's resource website, or through authorized online educational platforms associated with the publisher. Are the Prentice Hall Chemistry practice problem answers reliable? Yes, the answer keys provided by Prentice Hall are accurate and aligned with the textbook content, but students should also understand the solutions rather than just memorize answers. How can I effectively use Prentice Hall Chemistry practice problem answers for studying? Use the answers to check your work after attempting the problems, review step-by-step solutions to understand the reasoning, and practice similar problems to reinforce your understanding. Is there an online resource for free Prentice Hall Chemistry practice problem answers? Some educational websites and student forums may share solutions, but for official and accurate answers, it's best to access resources provided by the publisher or your teacher. What should I do if my Prentice Hall Chemistry practice problem answers don't match my work? Double-check your calculations and understanding of the concepts. If discrepancies persist, consult your teacher, textbook explanations, or online tutorials to clarify your approach. Can I use Prentice Hall Chemistry practice problem answers to prepare for exams? Yes, reviewing practice problem answers is a good way to reinforce concepts and test your understanding before exams, but ensure you also practice with additional problems and mock tests. Are there any apps or tools that provide solutions to Prentice Hall Chemistry problems? Some educational apps and online platforms offer chemistry problem solutions, but always verify that they are accurate and align with Prentice Hall's curriculum to ensure proper understanding. How can I get help with difficult Prentice Hall Chemistry practice problems? Seek assistance from your teacher, join study groups, use online tutoring services, or consult chemistry forums and educational websites to get explanations and guidance on challenging problems.

Related keywords: prentice hall chemistry solutions, chemistry practice problems with answers, prentice hall chemistry textbook solutions, chemistry exercises with answers, prentice hall chemistry review questions, chemistry problem sets with solutions, prentice hall chemistry workbook answers, chemistry practice questions with solutions, prentice hall chemistry study guide answers, chemistry answer key

Problem and solution short passages 6th grade

problem and solution short passages 6th grade are essential tools for young students to develop their reading comprehension, critical thinking, and writing skills. These passages help students identify issues within a story or real-life scenario and think creatively about how to resolve them. In the 6th grade, students are at a crucial stage where they can begin to understand more complex texts and practice summarizing information concisely. This article explores the importance of problem and solution short passages for 6th graders, provides strategies for teaching and learning these skills, and offers example passages to enhance understanding.

Understanding Problem and Solution Short Passages for 6th Graders

What Are Problem and Solution Passages?

Problem and solution passages are a type of reading comprehension text that presents a specific issue or challenge (the problem) and then discusses one or more ways to resolve or address the issue (the solution). These passages are designed to help students practice identifying key elements within a story or informational text.

Key features of problem and solution passages include:

- Clear presentation of a problem or challenge.
- Multiple potential or actual solutions.
- Explanation of how solutions work or why they are effective.
- Contextual clues to help identify parts of the passage.

Why Are They Important for 6th Grade Students?

For 6th graders, mastering problem and solution passages supports several academic and cognitive skills:

- Enhances reading comprehension by focusing on main ideas and details.
- Develops critical thinking by analyzing how problems are addressed.
- Prepares students for more complex texts in later grades.
- Builds writing skills through summarizing and explaining solutions.
- Encourages problem-solving attitudes applicable in real life.

Strategies for Teaching Problem and Solution Passages to 6th Graders

Teaching 6th graders how to effectively understand and write problem and solution passages

involves engaging activities, guided practice, and scaffolded instruction. Here are some effective strategies:

1. Use Visual Aids and Graphic Organizers

Graphic organizers help students visually map the problem and solutions within a passage. Examples include:

- T-charts labeled "Problem" and "Solution."
- Cause-and-effect diagrams.
- Story maps highlighting the problem and resolution.

2. Practice Guided Reading

Read passages aloud as a class, pausing to discuss:

- What the problem is.
- Possible or actual solutions.
- How the solution addresses the problem.

3. Encourage Questioning

Ask students targeted questions:

- What is the main problem in this passage?
- How do the characters try to solve the problem?
- Why do you think the solution worked or didn't work?

4. Have Students Write Their Own Passages

Students can practice creating their own problem and solution passages by:

- Writing about personal experiences.
- Creating stories with clear problems and resolutions.
- Summarizing existing stories or articles.

5. Incorporate Real-Life Scenarios

Use real-world problems relevant to students' lives to make learning meaningful, such as:

- Bullying at school.
- Environmental issues.
- Family conflicts.

Examples of Problem and Solution Short Passages for 6th Grade

Below are sample passages suitable for 6th-grade learners to practice identifying problems and solutions.

Example 1: School Lunch Issue

Problem:

Many students at Lincoln Middle School didn't enjoy the new lunch menu. The food was cold, and students felt it didn't taste good.

Solution:

The school cafeteria staff asked students for feedback and started offering a variety of popular dishes. They also improved food storage to keep meals warm.

Discussion:

Students can identify the problem as dissatisfaction with school lunches and the solution as gathering feedback and improving food quality.

Example 2: Lost Pet

Problem:

Emma's family's dog, Max, ran away during a walk in the park. Emma was worried because Max was not used to being outside alone.

Solution:

Emma and her family put up flyers around the neighborhood and checked local shelters. Soon, someone recognized Max and called them.

Discussion:

In this passage, the problem is Max running away, and the solution involves community help and searching efforts.

Example 3: Road Construction Delay

Problem:

The main road to the town was closed for construction, making it difficult for residents to get to work and school.

Solution:

The city authorities set up a detour route and shared updates through local radio and signs to help drivers find alternative paths.

Discussion:

The problem is the road closure, and the solution is providing detours and communication to minimize inconvenience.

Tips for Creating Effective Problem and Solution Passages

When designing your own passages or helping students write them, keep these tips in mind:

Key points for effective passages:

- Clearly state the problem at the beginning.
- Use descriptive details to make the problem relatable.
- Offer logical and feasible solutions.
- Include transitional words like "because," "so," "therefore," to connect ideas.
- End with a summary or a reflection on the effectiveness of the solution.

Practice Activities to Reinforce Learning

To help 6th graders master problem and solution short passages, consider incorporating these activities:

- Story Mapping: Students read a passage and fill out a story map highlighting the problem and solutions.
- Group Discussions: Small groups analyze passages and discuss possible alternative solutions.
- Writing Exercises: Students write their own problem and solution stories based on prompts.
- Quiz Games: Use quizzes to identify problems and solutions in various texts.

Conclusion

Problem and solution short passages are powerful educational tools for 6th grade students. They not only improve reading comprehension but also foster critical thinking and problem-solving skills. By understanding how to recognize problems and think about effective solutions, students become better prepared for academic challenges and real-life situations. Teachers and parents can support this learning by providing engaging activities, clear examples, and opportunities for creative writing. With consistent practice, 6th graders will develop confidence in analyzing texts and expressing their ideas clearly and effectively.

Remember: The key to mastering problem and solution passages is practice, discussion, and application. Encourage students to look for problems and solutions everywhere—from stories and articles to everyday life—and watch their skills grow!

Problem and Solution Short Passages 6th Grade: A Guide to Developing Critical Reading Skills

Introduction

Problem and solution short passages 6th grade is a fundamental component of reading comprehension education at this level. As students transition into middle school, they encounter more complex texts that require not only understanding the main idea but also analyzing the structure of the passage. One common format that educators emphasize is the problem and solution passage. These passages help students develop critical thinking by identifying challenges and understanding how they are addressed. This article explores what problem and solution passages are, why they are important for 6th-grade learners, and practical strategies to improve skills in reading and analyzing these types of texts.

What Are Problem and Solution Short Passages?

Defining the Structure

Problem and solution passages are a specific type of informational text that presents a challenge and then offers one or more ways to resolve it. They are designed to help students recognize how authors organize information and to develop their ability to identify key ideas quickly.

Key Characteristics:

- **Introduction of a Problem:** The passage begins by describing an issue or challenge that needs attention.
- **Explanation of the Problem:** Details about why the problem exists and its impact.
- **Proposed Solutions:** The text then discusses possible ways to solve or address the problem.
- **Resolution or Conclusion:** Often, the passage ends with the most effective solution or a summary of how the problem is resolved.

Example:

Imagine a paragraph about a neighborhood with a lot of litter. It explains how trash affects wildlife and the community's health. Then, it discusses solutions such as organizing cleanup events and installing trash bins. The passage ends by emphasizing the importance of community effort.

Why Are Problem and Solution Passages Important for 6th Graders?

Developing Critical Thinking

At the 6th-grade level, students are expanding their vocabulary and comprehension skills. Recognizing the problem-solution structure helps them:

- **Understand Cause and Effect:** See how problems lead to certain consequences and how solutions can prevent or fix issues.
- **Enhance Analytical Skills:** Identify the main ideas and supporting details.
- **Improve Writing Skills:** Learn how to structure their own writing logically.

Real-World Relevance

These passages mirror real-life situations, such as solving community issues, personal challenges, or environmental problems. By mastering this reading skill, students become better equipped to analyze situations critically and contribute thoughtfully to discussions.

Challenges Students Face with Problem and Solution Passages

While these passages are valuable, students often encounter difficulties such as:

- **Identifying the Problem:** Sometimes, the problem is implied rather than explicitly stated.

- Distinguishing Between Multiple Solutions: Recognizing which solution is most effective or emphasized.
- Understanding Vocabulary: Complex words or technical terms can hinder comprehension.
- Connecting Ideas: Linking the problem with its solution requires careful reading and analysis.

Recognizing these challenges is the first step toward developing effective strategies to overcome them.

Strategies to Improve Reading and Comprehension of Problem and Solution Passages

- Teach Signal Words and Phrases

Signal words help students identify parts of the passage. Examples include:

- Problem indicators: "The issue is," "The challenge," "A common problem."
- Solution indicators: "To solve this," "One way to fix it," "The solution is."

- Use Graphic Organizers

Visual tools aid in breaking down the passage:

- Problem-Solution Charts: Students can record the problem and note each proposed solution.
- Flowcharts: Show the progression from identifying a problem to implementing a solution.
- Mind Maps: Connect related ideas and solutions visually.

- Practice Summarization

Encourage students to paraphrase each section:

- Restate the problem in their own words.
- Summarize the proposed solutions.
- Conclude with the overall resolution.

This deepens understanding and retention.

- Ask Guided Questions

Use targeted questions to activate critical thinking:

- What is the main problem discussed?
- Why is this problem important?
- What solutions are suggested?
- Which solution do you think is the best? Why?
- How does this passage relate to real life?

- Build Vocabulary Skills

Introduce new words within context and practice using them in sentences. Understanding key terms makes comprehension smoother.

Classroom Activities to Reinforce Skills

Interactive Read-Alouds

Read problem and solution passages aloud, pausing to discuss key points and signal words.

Identify and Highlight

Provide students with texts where they highlight problem and solution phrases, fostering close reading.

Group Discussions

Small groups analyze a passage together, identifying problems and solutions, then share findings with the class.

Writing Practice

Have students write their own problem-solution paragraphs about issues they care about, reinforcing structure and comprehension.

Examples of Problem and Solution Passages for 6th Grade

Sample Passage 1:

Problem: Many students in the school cafeteria waste food because they don't finish their meals.

Solution: The school can implement a "finish your plate" campaign and donate leftovers to local shelters.

Outcome: These actions help reduce waste and support community members in need.

Sample Passage 2:

Problem: The local park is overrun with litter, making it unpleasant for visitors.

Solution: Organizing monthly cleanup days and installing more trash bins encourage visitors to keep the park clean.

Outcome: A cleaner park becomes more inviting and safe for everyone.

Conclusion

Mastering problem and solution short passages is a vital skill for 6th-grade students. It enhances their ability to analyze texts critically, understand cause-and-effect relationships, and develop logical thinking. By learning to identify key signal words, using graphic organizers, practicing summarization, and engaging in interactive activities, students can become confident readers capable of tackling complex informational texts. These skills not only support academic success but also prepare them to navigate real-world challenges with insight and problem-solving abilities. As educators and parents, fostering these skills early lays the foundation for lifelong critical thinking and effective communication.

Question What is a problem and solution short passage? A problem and solution short passage is a short text that explains a problem and then describes how it can be solved. Why is it important to understand problem and solution passages? Understanding these passages helps you improve reading comprehension and learn how problems can be fixed in real life. How can I identify the problem in a passage? Look for sentences that describe an issue or something that is going wrong; these often start with words like 'problem,' 'issue,' or 'difficulty.' What clues indicate the solution in a problem and solution passage? Solutions are usually described after the problem, often starting with words like 'to fix,' 'solution,' 'so,' or 'therefore.' Can you give an example of a problem and solution short passage? Yes. Example: 'Many students forget their homework. To solve this, students can use a planner or remind themselves before leaving school.' How can I practice identifying problems and solutions in passages? Practice by reading short stories or articles and underlining the problem and solution parts. Then, check if you identified them correctly. What are some common words used in problem and solution passages? Common words include 'problem,' 'issue,' 'difficulty,' 'solution,' 'fix,' 'answer,' and 'therefore.' Why are problem and solution passages

useful in everyday life? They help you understand how to think about problems and find ways to solve them in situations like school, home, or with friends. What should I do if I can't find the solution in a passage? Try reading the passage carefully again and look for sentences that suggest how the problem can be fixed or improved. How can teachers help students understand problem and solution passages better? Teachers can provide examples, ask questions about the passages, and have students practice identifying problems and solutions regularly.

Related keywords: problem-solving, short passages, 6th grade reading, comprehension, solutions, reading skills, text analysis, critical thinking, practice passages, educational resources

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