

Ati 2013 test bank Latest Edition

ati 2013 test bank: Your Comprehensive Guide to Exam Success

Preparing for the ATI 2013 Test Bank can be a pivotal step in advancing your academic or professional journey. Whether you're a student aiming to excel in nursing exams, a healthcare professional seeking certification, or an educator designing assessments, understanding the structure and content of the ATI 2013 Test Bank is essential. This comprehensive guide provides an in-depth overview of what the ATI 2013 Test Bank entails, how to utilize it effectively, and tips to maximize your study efforts.

Understanding the ATI 2013 Test Bank

What is the ATI 2013 Test Bank?

The ATI 2013 Test Bank is a curated collection of practice questions, assessments, and exam simulations designed to prepare candidates for various ATI exams. These tests are aligned with the curriculum and standards set in 2013, offering a reliable resource to evaluate knowledge, identify gaps, and build confidence.

Key Features of the Test Bank

The ATI 2013 Test Bank typically includes:

- **Multiple-choice questions:** Covering a wide range of topics relevant to the exam.
- **Case studies and scenario questions:** To test application skills in real-world contexts.
- **Rationale explanations:** Providing reasoning for correct and incorrect answers to enhance understanding.
- **Progressive difficulty levels:** From basic to advanced questions to foster skill development.
- **Test simulations:** Full-length practice exams that mimic real testing conditions.

Content Areas Covered in the 2013 Test Bank

The test bank encompasses a broad spectrum of subjects pertinent to healthcare and nursing education, aligned with the 2013 standards. Major content areas include:

Fundamentals of Nursing

- Patient care techniques
- Vital signs and assessments
- Infection control protocols
- Nursing ethics and legal considerations

Medical-Surgical Nursing

- Pathophysiology of common diseases
- Pharmacology and medication administration
- Postoperative care
- Wound management

Pediatric Nursing

- Child growth and development stages
- Pediatric assessment techniques
- Common pediatric illnesses
- Family-centered care approaches

Mental Health Nursing

- Psychiatric disorders and management
- Therapeutic communication skills
- Medication management in mental health
- Legal and ethical issues in mental health

Maternal and Newborn Nursing

- Obstetric assessments
- Complications during pregnancy
- Postpartum care
- Newborn care and screening

How to Effectively Use the ATI 2013 Test Bank

Develop a Study Plan

To maximize your preparation, create a structured study schedule:

- Identify your target exam date and set milestones.
- Allocate specific times for practicing different content areas.
- Mix review questions with full-length practice exams to simulate real test conditions.

Utilize Practice Questions Strategically

Practice questions help reinforce knowledge and improve test-taking skills:

- Start with questions in your weaker areas.
- Review rationales thoroughly to understand reasoning.
- Track your progress to identify patterns in mistakes.

Simulate Exam Conditions

Attempt full-length practice exams under timed conditions:

- Limit distractions to replicate testing environment.
- Analyze results to identify time management issues.
- Adjust study focus based on performance.

Leverage Rationales for Deep Learning

Understanding why an answer is correct or incorrect helps solidify knowledge:

- Read explanations carefully.
- Note key concepts and common pitfalls.
- Use rationales to clarify misconceptions.

Benefits of Using the ATI 2013 Test Bank

Aligned with Real Exam Standards

The test bank reflects the format, question types, and content focus of the actual ATI exams, providing realistic preparation.

Enhanced Critical Thinking Skills

Scenario-based questions encourage application of knowledge, improving clinical reasoning.

Identifying Knowledge Gaps

Practice assessments reveal areas needing further review, allowing targeted studying.

Boosting Confidence and Reducing Anxiety

Regular practice familiarizes candidates with exam conditions, reducing test-day stress.

Flexible Learning Resources

Accessible online or offline, the test bank offers flexibility to study anytime and anywhere.

Legal and Ethical Considerations

When utilizing the ATI 2013 Test Bank:

- Ensure access through legitimate channels to avoid copyright infringement.
- Avoid sharing or distributing copyrighted materials without permission.
- Use the test bank solely for personal educational purposes.

Conclusion

The ATI 2013 Test Bank is an invaluable resource for anyone preparing for ATI exams, offering comprehensive practice questions, rationales, and simulated exams that closely mirror real test conditions. By developing a structured study plan, actively engaging with practice questions, and analyzing rationales, candidates can significantly enhance their knowledge, confidence, and exam performance. Remember, consistent practice combined with strategic review is the key to success in any assessment. Harness the power of the ATI 2013 Test Bank to achieve your academic and professional goals effectively.

ATI 2013 Test Bank: A Comprehensive Guide for Nursing Students

Navigating the world of nursing education can be challenging, especially when it comes to preparing for pivotal assessments like the ATI 2013 Test Bank. This extensive resource is designed to help nursing students gauge their knowledge, identify areas for improvement, and build confidence ahead of licensing exams. Whether you're reviewing content for the first time or honing your

test-taking strategies, understanding the structure and effective utilization of the ATI 2013 Test Bank can make a significant difference in your academic journey.

What Is the ATI 2013 Test Bank?

The ATI 2013 Test Bank is a collection of practice questions, quizzes, and exam simulations aligned with the curriculum and standards used in nursing programs during that year. It serves as a valuable supplement to coursework, providing realistic test scenarios that mirror the types of questions students will encounter on the NCLEX and other licensing examinations.

Key Features of the Test Bank:

- Comprehensive Content Coverage: Encompasses a broad range of nursing topics, including pharmacology, anatomy, physiology, pediatrics, mental health, and more.
- Variety of Question Formats: Includes multiple-choice, select-all-that-apply, matching, and case study questions.
- Aligned with 2013 Standards: Reflects the clinical practices, guidelines, and nursing theories prevalent during that period.
- Practice Mode and Assessment Mode: Offers both practice questions for learning and timed assessments for exam readiness.

Why Use the ATI 2013 Test Bank?

For nursing students, using a well-structured test bank like the ATI 2013 version can provide numerous benefits:

- Enhanced Content Mastery

Regular practice with test bank questions reinforces core concepts, helping students internalize vital information.

- Exam Strategy Development

Simulating test conditions allows students to develop time management skills and familiarize themselves with question formats.

- Self-Assessment and Progress Tracking

Identifying strengths and weaknesses enables targeted review, optimizing study time and improving scores.

- Confidence Building

Repeated exposure to realistic questions builds confidence, reducing test anxiety and improving overall performance.

How to Effectively Use the ATI 2013 Test Bank

To maximize the benefits of this resource, consider adopting a strategic approach:

Step 1: Familiarize Yourself With the Content

- Review the table of contents and identify key topics.
- Prioritize areas where you feel less confident.

Step 2: Set a Study Schedule

- Allocate specific times for practicing questions.
- Mix different subjects to ensure comprehensive coverage.

Step 3: Practice in Different Modes

- Use practice mode for learning and review.
- Use assessment mode to simulate exam conditions, focusing on timing and stamina.

Step 4: Review Rationales Thoroughly

- After each question, read detailed explanations to understand why an answer is correct or incorrect.
- Take notes on concepts requiring further review.

Step 5: Track Your Progress

- Keep a record of scores and identify recurring problem areas.
- Adjust your study plan accordingly.

Common Topics Covered in the ATI 2013 Test Bank

Understanding the scope of the questions can help you prepare more effectively. Here are some of the major areas typically included:

- Fundamentals of Nursing
 - Infection control
 - Patient safety
 - Basic nursing skills
 - Vital signs and measurements
- Pharmacology
 - Medication administration
 - Drug classifications
 - Side effects and contraindications
- Adult Health
 - Cardiovascular, respiratory, and renal disorders
 - Surgical nursing care
- Maternal and Newborn Nursing
 - Prenatal care
 - Labor and delivery
 - Postpartum management

- Pediatric Nursing

- Growth and development milestones
- Pediatric illnesses

- Mental Health Nursing

- Psychiatric disorders
- Therapeutic communication techniques

- Community Health

- Public health principles
- Preventive care strategies

Navigating the Question Types in the Test Bank

The ATI 2013 Test Bank is designed to reflect real-world exam questions, which often test critical thinking and application of knowledge. Familiarity with various question types can improve your accuracy.

- Multiple Choice

- The most common format.
- Requires selecting the best answer from four or five options.

- Select All That Apply (SATA)

- Multiple correct answers.
- Demands careful consideration and understanding of nuances.

- Matching

- Connect terms with definitions or related concepts.
- Tests recall and association skills.

- Case Studies

- Scenario-based questions that assess clinical judgment.
- Often involve multiple questions related to a single case.

Tips for Success with the ATI 2013 Test Bank

Achieving high scores requires strategic preparation. Here are some tips to help you succeed:

- Start Early: Don't wait until the last minute; consistent practice over weeks yields better retention.
- Focus on Rationales: Understanding why an answer is correct or incorrect is more valuable than rote memorization.
- Simulate Exam Conditions: Practice timed assessments to improve your ability to perform under pressure.
- Review Content Regularly: Revisit difficult topics periodically to reinforce learning.
- Join Study Groups: Collaborative learning can clarify complex concepts and provide moral support.
- Utilize Additional Resources: Complement the test bank with textbooks, online tutorials, and instructor-led reviews.

Ethical Considerations and Proper Usage

While many students seek access to the ATI 2013 Test Bank, it's crucial to emphasize ethical usage:

- Use for Practice Only: Ensure you're using authorized versions or resources provided by your institution.
- Avoid Sharing or Selling Content: Respect intellectual property rights.
- Focus on Learning: Use the bank as a tool to enhance understanding, not just to memorize answers.

Final Thoughts

The ATI 2013 Test Bank remains a valuable resource for nursing students aiming to excel in their coursework and licensing exams. Its comprehensive questions, aligned with standards from that period, offer a realistic preview of the types of challenges you'll face. By adopting a disciplined, strategic approach to practice and review, you can transform this resource into a powerful tool for success. Remember, consistent effort, understanding concepts deeply, and maintaining ethical standards are the keys to unlocking your full potential as a future nurse.

Good luck on your journey to becoming a licensed registered nurse!

QuestionAnswer What is the ATI 2013 Test Bank used for? The ATI 2013 Test Bank is used by nursing students and educators to prepare for exams, practice questions, and assess knowledge based on ATI's nursing assessment and testing resources. How can I access the ATI 2013 Test Bank? Access to the ATI 2013 Test Bank is typically provided through institutional subscriptions, licensing agreements, or purchase from authorized vendors. Students should check with their nursing program for access details. Is the ATI 2013 Test Bank still relevant for current nursing exams? While the ATI 2013 Test Bank was popular in the past, newer versions or updated test banks are recommended to ensure alignment with current curricula and exam standards. What topics are covered in the ATI 2013 Test Bank? The test bank covers a wide range of nursing topics including anatomy, physiology, pharmacology, mental health, maternal health, pediatrics, and fundamentals of nursing practice. Can I use the ATI 2013 Test Bank for NCLEX exam preparation? Yes, many questions in the ATI 2013 Test Bank are designed to mimic NCLEX-style questions, making it a useful resource for exam preparation. Are there any ethical considerations when using the ATI 2013 Test Bank? Yes, users should ensure they have proper authorization to access and use the test bank, and avoid sharing copyrighted material improperly to adhere to academic integrity policies. How effective is the ATI 2013 Test Bank in improving exam scores? Many students find that practicing with the ATI 2013 Test Bank enhances their understanding and confidence, leading to improved exam performance when used regularly as part of study routines. What are the differences between the ATI 2013 Test Bank and newer versions? Newer versions typically include updated content, more questions, and alignment with current standards, whereas the 2013 version may contain outdated information or fewer questions. Is there a way to customize or select specific topics in the ATI 2013 Test Bank? Depending on the platform, users may be able to select specific topics or question types for targeted practice, but features vary by access mode and software version. Where can I find legitimate copies of the ATI 2013 Test Bank? Legitimate copies are usually obtained through official ATI resources, authorized educational vendors, or your nursing program's learning platform. Avoid unauthorized or pirated versions.

Related keywords: ATI 2013 test bank, ATI nursing test bank, ATI practice questions, ATI exam review, ATI study guide, ATI assessment bank, ATI test prep, ATI nursing exams, ATI sample questions, ATI quiz bank

bank reconciliation statement with question and solution

Bank Reconciliation Statement with Question and Solution

A bank reconciliation statement is an essential financial document that helps businesses and individuals ensure that their accounting records align with the bank's records. It involves comparing the company's cash book with the bank statement to identify any discrepancies, errors, or omissions. This process is crucial for maintaining accurate financial records, detecting fraud, and ensuring the correctness of cash balances. In this article, we will explore what a bank reconciliation statement is, why it is important, and provide a comprehensive example with questions and solutions to clarify the process.

Understanding Bank Reconciliation Statement

What is a Bank Reconciliation Statement?

A bank reconciliation statement is a report prepared to match the company's cash book balance with the bank statement balance. It identifies differences between the two records and explains the reasons for these differences, such as outstanding checks, deposits in transit, bank charges, or errors.

Why is Bank Reconciliation Important?

The significance of preparing a bank reconciliation statement includes:

- Ensuring accuracy of cash balances
- Detecting errors or fraudulent activities
- Facilitating proper financial reporting
- Maintaining good financial control
- Complying with auditing standards

Components of a Bank Reconciliation Statement

A typical bank reconciliation statement contains:

- Bank statement balance
- Cash book balance
- Adjustments for outstanding checks

- Adjustments for deposits in transit
- Bank charges and interest
- Errors identified in either record

Steps to Prepare a Bank Reconciliation Statement

Preparing a bank reconciliation involves systematic steps:

- Obtain the latest bank statement and cash book
- Compare the bank statement with the cash book
- Identify and record outstanding checks and deposits in transit
- Adjust for bank charges, interest, or errors
- Calculate the adjusted balances
- Ensure both adjusted balances agree

Sample Question and Solution

Scenario:

XYZ Ltd. has provided the following details for their bank reconciliation as of March 31, 2024:

- Bank statement balance on March 31, 2024: Rs. 50,000
- Cash book balance on March 31, 2024: Rs. 48,500
- Outstanding checks: Rs. 4,000
- Deposits in transit: Rs. 2,500
- Bank charges for March: Rs. 200
- Interest credited by bank: Rs. 150
- Bank error: Rs. 300 (bank recorded a deposit of Rs. 1,000 instead of Rs. 1,300)

Question:

Prepare the bank reconciliation statement and determine the correct cash book balance.

Solution:

Step 1: Start with the bank statement balance

Bank statement balance: Rs. 50,000

Step 2: Adjust for deposits in transit

Deposits in transit: Rs. 2,500

These are already included in the bank statement but not reflected in the cash book.

Step 3: Adjust for outstanding checks

Outstanding checks: Rs. 4,000

These are recorded in the cash book but not yet cleared by the bank.

Step 4: Adjust for bank errors

Bank error: Rs. 300 (the bank understated a deposit by Rs. 300)

Step 5: Calculate the adjusted bank balance

Adjusted bank balance = Bank statement balance + Deposits in transit - Outstanding checks ± Bank errors

Adjusted bank balance = Rs. 50,000 + Rs. 2,500 - Rs. 4,000 + Rs. 300

= Rs. 50,000 + 2,500 - 4,000 + 300

= Rs. 48,800

Step 6: Adjust the cash book balance

Cash book balance: Rs. 48,500

Adjustments:

- Subtract bank charges: Rs. 200
- Add interest credited by bank: Rs. 150

Adjusted cash book balance = Rs. 48,500 - Rs. 200 + Rs. 150

= Rs. 48,450

Step 7: Reconciliation

Since the adjusted balances are Rs. 48,800 (bank) and Rs. 48,450 (cash book), they do not match. The difference is Rs. 350.

Step 8: Explanation of the discrepancy

The Rs. 350 difference might be due to unrecorded bank charges, errors, or timing differences. To reconcile, the company should verify:

- Whether any unrecorded bank charges or credits exist
- Any errors in recording transactions

Final step:

The company records the necessary adjustments in the cash book to match the bank statement, ensuring both balances agree.

Conclusion

A bank reconciliation statement is a vital tool for maintaining accurate financial records. It helps detect errors, prevent fraud, and ensure the correctness of cash balances. By following systematic steps and understanding common adjustments like outstanding checks, deposits in transit, bank charges, and errors, businesses can effectively reconcile their bank and cash book records. Regular reconciliation not only enhances financial control but also builds trust with stakeholders and auditors. The example provided demonstrates how to approach a typical bank reconciliation with practical questions and solutions, equipping users with the skills to perform their own reconciliations confidently.

Bank Reconciliation Statement with Question and Solution: An In-Depth Analytical Review

Introduction

In the realm of financial management, accuracy, transparency, and consistency are paramount. One of the essential tools to ensure these qualities in an organization's financial records is the bank reconciliation statement. This document acts as a bridge, aligning the company's cash book with the bank statement, thereby uncovering discrepancies, preventing fraud, and maintaining reliable financial data. Despite its importance, many practitioners encounter challenges in preparing and understanding bank reconciliation statements. This article offers an investigative analysis into the concept of bank reconciliation statements, providing detailed explanations, common issues,

illustrative questions, and their solutions?aimed at enhancing comprehension and application.

Understanding the Bank Reconciliation Statement

What Is a Bank Reconciliation Statement?

A bank reconciliation statement is a financial document prepared periodically?monthly or quarterly?that compares the company's internal cash records (cash book) with the bank's records (bank statement). The primary purpose is to identify discrepancies caused by timing differences, errors, or fraudulent activities, and to adjust the company's books accordingly.

Why Is It Important?

- Detects Errors: Identifies errors made by the bank or the company.
- Prevents Fraud: Helps catch unauthorized transactions.
- Ensures Accurate Financial Reporting: Provides reliable cash balances.
- Maintains Control: Assists in managing cash flows effectively.

Fundamental Components of Bank Reconciliation

Before delving into the process, understanding the core components involved is crucial.

- Cash Book Balance: The company's recorded cash balance.
- Bank Statement Balance: The bank's recorded balance.
- Adjustments: Items that cause differences such as deposits in transit, outstanding checks, bank charges, or errors.

The Process of Reconciling

The general steps include:

- Comparing the cash book and bank statement balances.
- Identifying timing differences and errors.
- Making necessary adjustments to either record.
- Preparing the reconciliation statement to reflect the true cash position.

Common Discrepancies and Their Causes

Discrepancies between the cash book and bank statement can arise from various reasons:

| Discrepancy Type | Typical Causes |

|-----|-----|

| Timing Differences | Deposits in transit, outstanding checks |

| Errors in Recording | Mistakes in recording amounts, double entries |

| Bank Charges | Service charges, interest deductions |

| Unauthorized Transactions | Fraudulent withdrawals or deposits |

| Errors in Bank Records | Bank's recording mistakes |

Investigative Approach: Question and Solution

To illustrate the process, consider the following common problem encountered during bank reconciliation.

Sample Question

Question:

XYZ Ltd. has the following details for the month of March 2024:

- Cash book balance (as per company records): ?1,20,000
- Bank statement balance (as per bank's records): ?1,15,000
- The following reconciling items were identified:
 - Deposit of ?5,000 made on March 30th, recorded in the cash book but not yet reflected in the bank statement.
 - Outstanding checks totaling ?8,000 issued but not yet cleared by the bank.
 - Bank charges of ?200 debited in the bank statement but not yet recorded in the cash book.
 - A cheque of ?2,000 deposited directly into the bank account (not recorded in the cash book).
 - A bank error: a deposit of ?1,000 was wrongly recorded as ?100 by the bank.

Required:

Prepare the bank reconciliation statement for March 2024.

Step-by-Step Solution

Step 1: Start with the balances

- Cash book balance: ?1,20,000
- Bank statement balance: ?1,15,000

Step 2: Adjust the bank statement balance

a. Add deposits in transit:

Deposit made on March 30th of ?5,000 not yet reflected in bank statement.

Adjusted balance: $?\1,15,000 + ?5,000 = ?1,20,000$

b. Deduct outstanding checks:

Outstanding checks totaling ?8,000.

Adjusted balance: $?\1,20,000 - ?8,000 = ?1,12,000$

c. Correct bank error:

Bank wrongly recorded a deposit of ?1,000 as ?100.

Difference: $?\1,000 - ?100 = ?900$ (bank under-recorded deposit).

Adjusted bank balance: $?\1,12,000 + ?900 = ?1,12,900$

Step 3: Adjust the cash book balance

a. Record bank charges:

Bank charges of ?200 deducted by the bank but not yet recorded in cash book.

Adjusted cash book balance: $?\1,20,000 - ?200 = ?1,19,800$

b. Record direct deposit:

A deposit of ?2,000 directly into the bank account (not recorded in cash book).

Adjusted cash book balance: ?1,19,800 + ?2,000 = ?1,21,800

Step 4: Final comparison

- Adjusted bank statement balance: ?1,12,900
- Adjusted cash book balance: ?1,21,800

Difference: ?1,21,800 - ?1,12,900 = ?8,900

This discrepancy indicates some unresolved items, and further investigation is necessary.

Step 5: Analyze and reconcile remaining differences

The remaining difference of ?8,900 suggests additional unrecorded items or errors. Since we have already accounted for the known items, possible causes include:

- Unrecorded bank errors
- Outstanding checks not yet cleared
- Unpresented deposits

Given the information, the main unresolved item is the difference caused by timing and possible errors.

Final Reconciliation Statement

Particulars	Dr. (?)	Cr. (?)
Balance as per cash book	1,20,000	
Add: Direct deposit not recorded in cash book	2,000	
Less: Bank charges not recorded in cash book		200
Adjusted cash book balance	1,21,800	

| Balance as per bank statement (after adjustments) | | 1,12,900 |

| Add: Deposit in transit (not reflected in bank statement) | 5,000 | |

| Less: Outstanding checks | | 8,000 |

| Add: Bank error correction (deposit recorded wrongly) | 900 | |

| Adjusted bank statement balance | | 1,12,900 |

Note: The remaining difference of ₹8,900 suggests further scrutiny or unrecorded items, but based on available data, the reconciliation aligns with the known adjustments.

Critical Analysis and Implications

The above example underscores the importance of meticulous record-keeping and timely updates. It highlights how small errors or omissions can cause significant discrepancies, potentially leading to misstatements or fraud if left uncorrected.

Common Challenges in Bank Reconciliation

- Timing issues: Deposits or checks recorded in one record but not yet reflected in the other.
- Errors: Mistakes in recording amounts or in bank processing.
- Fraudulent activities: Unauthorized transactions that can be disguised within discrepancies.
- Unclear documentation: Lack of supporting evidence for transactions.

Best Practices for Effective Reconciliation

- Regular reconciliation: Monthly or even weekly to catch issues early.
- Detailed record-keeping: Maintain supporting documents for all transactions.
- Clear procedures: Establish standardized steps for reconciliation.
- Automation tools: Use accounting software to automate parts of the process.
- Audit trail: Keep records of adjustments for future audits.

Conclusion

The bank reconciliation statement is a vital component of financial oversight that ensures the accuracy and integrity of an organization's cash records. While the process may appear straightforward, it demands careful attention to detail, comprehensive understanding of potential

discrepancies, and diligent investigation. The illustrative question and solution provided demonstrate not only how to prepare a reconciliation but also how to interpret and resolve common issues. Organizations that prioritize regular reconciliation and adopt best practices stand to benefit from stronger financial controls, enhanced transparency, and reduced risk of fraud.

Final Thoughts

Understanding the nuances of bank reconciliation statements equips finance professionals, auditors, and business owners with a critical tool for safeguarding assets and ensuring reliable reporting. As financial environments grow more complex, mastery over reconciling techniques becomes even more essential, emphasizing the need for ongoing education and process refinement.

Question What is a bank reconciliation statement and why is it important? A bank reconciliation statement is a document that compares the company's cash account with the bank's record to identify discrepancies. It is important because it helps ensure the accuracy of financial records, detect errors or fraud, and maintain reliable cash balances. **Answer** What are common reasons for discrepancies in bank reconciliation statements? Common reasons include outstanding checks, deposits in transit, bank errors, recording errors in the company's books, and timing differences between bank and company records. How do you prepare a bank reconciliation statement? To prepare a bank reconciliation, start with the bank statement balance, add deposits in transit, deduct outstanding checks, and adjust for bank errors. Then, compare this adjusted balance with the company's ledger balance, making necessary adjustments for errors or unrecorded transactions to reconcile both records. What is an example of a common adjustment in a bank reconciliation statement? A common adjustment is recording bank charges or interest earned that the company has not yet recorded in its books. For example, if the bank statement shows a service fee, the company needs to record this expense to reconcile the balances. How often should a business perform a bank reconciliation? It is recommended to perform a bank reconciliation at least monthly to ensure timely detection of errors, prevent fraud, and maintain accurate financial records.

Related keywords: bank reconciliation, bank statement, outstanding checks, deposits in transit, bank errors, cash book, reconciling items, bank balance, ledger account, reconciliation process

Read the full article online: [Bank Reconciliation Statement With Question And Solution](#)