

Deloitte Codility Test Questions

- I. MULTIPLE CHOICE: Choose the best answer. Use CAPITAL LETTERS. Write E if the answer cannot be found in the choices.
- Which of the following is the ASTM Standard in determining the water content in soil?
A. ASTM D2216 C. ASTM D2261
B. ASTM D2126 D. ASTM D2612
 - Which of the following does not belong to the group?
A. Sand-Cone Method
B. Rubber Balloon Method
C. Fall Cone Method
D. Nuclear Method
 - What do you call the calibrated soil used in Sand-Cone Method in determining the field density test of soil?
A. Okiyama Sand C. Otinaga Sand
B. Ottawa Sand D. Ottaga Sand
 - What is the specific range of relative compaction needed to comply with ASTM D-698?
A. 80%-85% C. 90%-95%
B. 85%-90% D. 95%-100%
 - What does D_{30} signifies in particle size distribution?
A. the grain diameter at 30% passing
B. the grain diameter at 30% retained
C. the grain diameter at 30% coarser
D. the grain diameter at 30% finer
 - It is the deflocculating agent used in determining the particle size of clay and silt as per ASTM Standard 152H.
A. Sodium Metahexaphosphate
B. Sodium Hexametaphosphate
C. Sodium Thiophosphate
D. Sodium Hypophosphate
 - Field density test on a compacted fill of sandy clay gives the following results:
 - Weight of moist soil from the hole = 1038 g
 - Oven-Dried Weight of the Soil = 914 g
 - Volume of Test Hole = 0.0169 ft³Laboratory moisture density test on this soil indicated a maximum dry density of 120 pcf at an optimum moisture content of 11%. Which of the following mostly nearly gives the percent compaction of the fill?
A. 96.3% B. 97.2%
C. 98.7% D. 99.3%
 - It is the water content where further loss of moisture will not result in any more volume reduction
A. Shrinkage Ratio C. Shrinkage Limit
B. Shrinkage Content D. Shrinkage Value
 - Compaction, in general, is the densification of soil by removal of air, which requires mechanical energy.
A. Consolidation
B. Compaction
C. Compression
D. None of the above
 - Which of the following is NOT a property of Standard Proctor test?
A. The soil is compacted in a mold that has a volume of 944 cm³.
B. The diameter of the mold is 101.6 mm.
C. The soil is mixed with varying amounts of water and then compacted in three equal layers by a hammer that delivers 25 blows to each layer.
D. The hammer has a mass of 3.5 kg and has to dropped from a height of 304.8 mm

Deloitte Codility Test Questions have become a significant part of the hiring process for technical roles within the company. As organizations increasingly rely on coding assessments to evaluate candidates' technical skills, understanding the nature and content of these tests is crucial for prospective applicants. In this article, we will explore the structure of the Deloitte Codility test, the types of questions candidates can expect, strategies for preparation, and tips for performing well during the assessment.

Understanding the Codility Test

The Codility test is an online coding assessment platform that enables companies like Deloitte to evaluate the programming skills of job applicants. The test is designed to assess various aspects of coding proficiency, including problem-solving abilities, algorithmic thinking, and coding style. The test is typically timed, and candidates are given a set of programming tasks to complete within a specified time frame.

Purpose of the Codility Test

The primary purpose of the Codility test is to:

- Assess Technical Skills:** The test evaluates candidates' coding proficiency in various programming languages, primarily focusing on the candidate's

ability to write clean, efficient, and correct code.

2. Identify Problem-Solving Abilities: Candidates are tasked with solving algorithmic problems that test their logical reasoning and problem-solving skills.

3. Reduce Bias in Hiring: By using a standardized test format, Deloitte aims to minimize biases in the hiring process and focus on candidates' actual coding abilities.

Structure of the Test

The structure of the Deloitte Codility test may vary, but it typically includes:

- Time Limit: Candidates usually have a limited time, ranging from 60 to 120 minutes, to complete the assessment.
- Number of Questions: The test may consist of 2 to 5 questions, depending on the specific role.
- Programming Languages: Candidates can often choose from various programming languages, such as Python, Java, C++, and JavaScript.
- Automated Grading: Codility uses automated grading systems to evaluate the solutions based on correctness, performance, and code quality.

Types of Questions

Deloitte Codility test questions typically fall into several categories, each assessing different skills and concepts. Understanding these categories can help candidates focus their preparation efforts effectively.

1. Algorithmic Challenges

These questions require candidates to implement algorithms to solve specific problems. Examples include:

- Sorting Algorithms: Implementing quicksort, mergesort, or other sorting techniques.
- Searching Algorithms: Writing code for binary search or depth-first search algorithms.
- Dynamic Programming: Solving problems that require optimization, such as the Fibonacci sequence or the knapsack problem.

2. Data Structures

Questions in this category test candidates' knowledge of various data

structures and their applications. Common data structures include:

- Arrays: Manipulating and processing arrays, such as finding duplicates or rotating arrays.
- Linked Lists: Implementing linked list operations, such as reversing a linked list or detecting cycles.
- Trees and Graphs: Traversing binary trees or implementing graph algorithms.

3. Mathematical and Logical Puzzles

These questions often involve mathematical reasoning or logical deduction. Examples include:

- Fibonacci Sequence: Calculating Fibonacci numbers using recursion or iteration.
- Prime Numbers: Writing functions to check for prime numbers or generate lists of primes.
- Combinatorial Problems: Solving problems related to permutations, combinations, or subsets.

4. Real-World Scenarios

Candidates may also encounter questions that simulate real-world problems, requiring them to design algorithms or systems. Examples include:

- Database Queries: Writing SQL queries to manipulate and retrieve data from a database.
- Web Scraping: Implementing a solution to scrape data from websites using programming languages.
- API Integration: Designing functions to interact with APIs and handle data input/output.

Preparation Strategies

To excel in the Deloitte Codility test, candidates must adopt effective preparation strategies. Here are some steps to consider:

1. Understand the Basics

Before diving into complex problems, ensure you have a solid understanding of fundamental concepts, including:

- Programming languages (syntax, structure, and common libraries)

- Basic algorithms (sorting and searching)
- Data structures (arrays, lists, stacks, queues, trees, and graphs)

2. Practice Coding Problems

Regular practice is essential for improving coding skills. Utilize platforms like:

- LeetCode: A platform with a wide array of coding problems categorized by difficulty.
- HackerRank: Offers coding challenges and competitions to sharpen skills.
- Codewars: Focuses on coding challenges in various programming languages.

3. Review Past Codility Tests

Familiarize yourself with the types of questions asked in past Codility tests. Websites and forums often share experiences and sample questions from previous candidates. Analyzing these questions can provide insight into the test's format and difficulties.

4. Time Management Practice

Since the test is timed, practice solving problems under time constraints. Use a stopwatch or timer to simulate the test environment. This practice will help you manage your time effectively during the actual assessment.

Tips for Success

To increase your chances of success during the Deloitte Codility test, consider the following tips:

1. Read Questions Carefully

Before starting to code, ensure you fully understand the problem statement. Pay attention to input/output specifications and constraints.

2. Plan Your Solution

Take a moment to outline your approach before writing code. This will help

you identify potential pitfalls and organize your thoughts.

3. Write Clean Code

Focus on code readability and maintainability. Use meaningful variable names, adhere to consistent formatting, and add comments where necessary to clarify your logic.

4. Test Your Code

Once you've written your solution, test it with various edge cases and inputs to ensure its correctness. Codility may run hidden tests to evaluate your solution against different scenarios.

5. Stay Calm and Focused

Lastly, maintain a positive mindset during the test. If you encounter a difficult problem, don't panic. Move on to the next question and come back if time permits.

Conclusion

Deloitte Codility test questions serve as an essential filter in the hiring process for technical roles. By understanding the test's structure, types of questions, and employing effective preparation strategies, candidates can enhance their chances of success. With the right mindset and practice, aspiring applicants can navigate the challenges of the Codility test and showcase their coding proficiency effectively.

Frequently Asked Questions

What is the Deloitte Codility test?

The Deloitte Codility test is an online coding assessment used by Deloitte to evaluate candidates' programming skills, problem-solving abilities, and coding proficiency as part of their hiring process.

What types of questions can I expect in the Deloitte

Codility test?

Candidates can expect algorithmic challenges, data structures problems, and practical coding tasks that assess their ability to write efficient and correct code in a limited amount of time.

Which programming languages are allowed in the Deloitte Codility test?

Typically, the Deloitte Codility test allows candidates to use popular programming languages such as Python, Java, C++, and JavaScript. However, it's best to check the specific guidelines provided for the test.

How should I prepare for the Deloitte Codility test?

To prepare for the Deloitte Codility test, candidates should practice coding problems on platforms like Codility, LeetCode, or HackerRank, focusing on data structures, algorithms, and time complexity.

Are the questions in the Deloitte Codility test similar to those found in other coding assessments?

Yes, the questions in the Deloitte Codility test are generally similar to those found in other technical interviews and coding assessments, often focusing on common algorithms and data structure challenges.

How long is the Deloitte Codility test?

The duration of the Deloitte Codility test can vary, but it typically lasts between 60 to 90 minutes, giving candidates a set time to complete multiple coding problems.

What is the scoring system for the Deloitte Codility test?

The scoring system for the Deloitte Codility test usually evaluates candidates based on the correctness of their solutions, efficiency of the code, and adherence to best coding practices, with higher scores awarded for more optimal solutions.

Can I retake the Deloitte Codility test if I don't pass?

Policies regarding retaking the Deloitte Codility test can vary by region and role, so it's essential to check with the recruitment team or the specific guidelines provided during the application process.

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