Amazon Coding Assessment Practice Test Questions and Answers

1. What is the time complexity of binary search algorithm?

A) O(n)

B) O(log n)

C) O(n²)

D) O(n log n)

2. Which data structure uses LIFO (Last In, First Out) principle?

A) Queue

B) Stack

C) Array

D) Linked List

3. What does the term "Big O notation" represent?

A) The exact runtime of an algorithm

B) The upper bound of algorithm's time complexity

C) The memory usage of a program

D) The number of lines of code

4. Which sorting algorithm has the best average-case time complexity?

A) Bubble Sort

B) Selection Sort

C) Quick Sort

D) Insertion Sort

Answers: 1-B 2-B 3-B 4-C

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