

CS Practice Test Questions and Answers

1. What is the time complexity of binary search?

- A) $O(n)$
- B) $O(\log n)$
- C) $O(n^2)$
- D) $O(n \log n)$

2. Which data structure operates on a Last-In-First-Out (LIFO) principle?

- A) Queue
- B) Stack
- C) Array
- D) Linked List

3. In object-oriented programming, what does polymorphism allow?

- A) Multiple inheritance only
- B) Objects of different types to be treated as instances of the same type
- C) Variable scoping
- D) Memory management

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

- A) Bubble sort - $O(n^2)$
- B) Merge sort - $O(n \log n)$
- C) Selection sort - $O(n^2)$
- D) Insertion sort - $O(n^2)$

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

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