

DAA Practice Test Questions and Answers

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

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

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

- A) Bubble Sort
- B) Selection Sort
- C) Quick Sort
- D) Insertion Sort

3. What is the space complexity of merge sort algorithm?

- A) $O(1)$
- B) $O(\log n)$
- C) $O(n)$
- D) $O(n^2)$

4. Which approach does dynamic programming use to solve problems?

- A) Divide and conquer only
- B) Greedy approach only
- C) Breaking problems into overlapping subproblems
- D) Random selection method

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

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