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General Questions

Practice Questions

Q1. What is the worst-case time complexity of binary search?

A. O(n)
B. O(log n)
C. O(n log n)
D. O(1)

Solution: In the worst case, binary search still operates in O(log n) time complexity.

Q2. If a binary search is performed on an array of size 16, how many comparisons are needed in the worst case?

A. 4
B. 5
C. 6
D. 7

Solution: The maximum number of comparisons needed is log2(16) = 4, but since we start counting from 0, it takes 5 comparisons.

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