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General Questions

Practice Questions

Q1. If a sorted array has 16 elements, how many comparisons will binary search make in the worst case?

A. 4
B. 5
C. 16
D. 8

Solution: In the worst case, binary search will make log2(16) = 4 comparisons.

Q2. If the target value is not present in a sorted array, what will binary search return?

A. The index of the closest value
B. The index of the first element
C. The index of the last element
D. -1 or a sentinel value

Solution: If the target value is not found, binary search typically returns -1 or a sentinel value indicating absence.

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