



SoulShift - Educational Q&A Platform

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 $\log_2(16) = 4$ 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.



