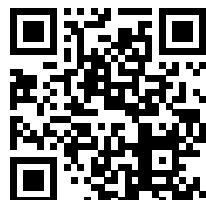




SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. If the 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 a binary search algorithm is implemented recursively, what is its space complexity due to recursion?

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

Solution: The space complexity of a recursive binary search is $O(\log n)$ due to the call stack.



