SoulShift

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 log2(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.