SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

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

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

Solution: The space complexity is O(log n) due to the recursive call stack.

Q2. What is the result of performing binary search on a sorted array for an element not present in the array?

A. The index of the closest element
B. The index of the first element
C. The index of the last element
D. An indication that the element is not found

Solution: Binary search will indicate that the element is not found, typically returning a sentinel value or -1.