



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.



