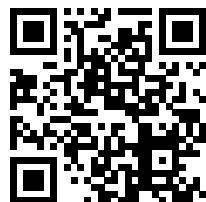




SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. What is the worst-case time complexity of binary search?

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

Solution: In the worst case, binary search still operates in $O(\log n)$ time complexity.

Q2. If a binary search is performed on an array of size 16, how many comparisons are needed in the worst case?

- A. 4
- B. 5
- C. 6
- D. 7

Solution: The maximum number of comparisons needed is $\log_2(16) = 4$, but since we start counting from 0, it takes 5 comparisons.



