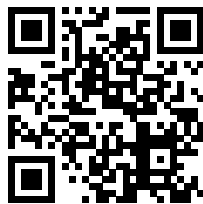




SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. What is the space complexity of the iterative implementation of binary search?

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

Solution: The iterative implementation of binary search uses a constant amount of space, leading to a space complexity of $O(1)$.

Q2. In a binary search algorithm, what happens to the search space after each comparison?

- A. It doubles
- B. It remains the same
- C. It halves
- D. It increases linearly

Solution: After each comparison in binary search, the search space is halved, which is why it is efficient.



