SoulShift

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.