SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. What is the average-case time complexity of quicksort?

A. O(n)
B. O(n log n)
C. O(n^2)
D. O(log n)

Solution: The average-case time complexity of quicksort is O(n log n) due to the divide-and-conquer approach.

Q2. What is the time complexity of searching for an element in a hash table?

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

Solution: In an ideal hash table with no collisions, searching for an element can be done in constant time O(1).

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