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SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. What is the time complexity of enqueueing an element in a queue implemented using a linked list?

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

Solution: Enqueueing an element in a queue implemented with a linked list is done in constant time, O(1), as it involves adding to the tail of the list.

Q2. What is the time complexity of performing a binary search on a sorted array?

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

Solution: Binary search has a time complexity of O(log n) because it repeatedly divides the search interval in half.

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