SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. Which data structure allows insertion and deletion from both ends?

A. Stack
B. Queue
C. Deque
D. Array

Solution: A Deque (Double-ended queue) allows insertion and deletion from both the front and the back.

Q2. What is the time complexity of deleting a node from a singly linked list given a pointer to that node?

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

Solution: If you have a pointer to the node to be deleted, you can delete it in O(1) time by copying the next node's data.

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