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General Questions

Practice Questions

Q1. What is the time complexity of a breadth-first search (BFS) on a graph with V vertices and E edges?

A. O(V)
B. O(E)
C. O(V + E)
D. O(V * E)

Solution: BFS visits each vertex and edge once, leading to a time complexity of O(V + E).

Q2. What is the time complexity of deleting an element from a stack?

A. O(1)
B. O(n)
C. O(log n)
D. O(n^2)

Solution: Deleting an element from a stack (pop operation) is done in constant time, hence O(1).

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