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General Questions

Practice Questions

Q1. In the Longest Common Subsequence problem, what is the time complexity of the dynamic programming solution?

A. O(m + n)
B. O(m * n)
C. O(m^2 + n^2)
D. O(m^2 * n^2)

*Solution: The time complexity of the dynamic programming solution for the Longest Common Subsequence problem is O(m * n), where m and n are the lengths of the two sequences.*

Q2. Which dynamic programming approach is used to solve the Coin Change problem?

A. Top-down
B. Bottom-up
C. Greedy
D. Brute force

Solution: The Coin Change problem can be solved using a bottom-up dynamic programming approach, where solutions to smaller subproblems are built up to solve larger problems.

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