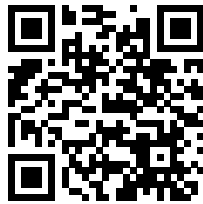




SoulShift - Educational Q&A Platform

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.



