

Algorithms

1. Explain the concept of dynamic programming and provide an example where it can be applied.
2. What is the difference between a greedy algorithm and a dynamic programming algorithm?
3. Describe the concept of memoization in the context of dynamic programming.
4. What is the time complexity of the dynamic programming approach to solving the Fibonacci sequence?

5. How can dynamic programming be used to solve the longest common subsequence (LCS) problem?