

Dynamic Programming

3. For each of the following dynamic programming problems, what would you choose the subproblems to be?
- (a) Find the longest monotone subsequence of a sequence.

 - (b) Find the edit distance between two strings.

 - (c) Find the longest common subsequence of two sequences.

 - (d) Find the shortest distance between vertices s and t in a weighted acyclic directed graph.

 - (e) The knapsack problem.

 - (f) Find the n^{th} Fibonacci number.