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.