

CSE431/531 (Spring 2022) Project 2

Due date: May 11, 2022

You need to implement the dynamic programming algorithm for the longest common subsequence problem. You can use C++, Java or Python to implement the algorithm.

Input You need to read the input from the console. It contains two lines, each containing one string. You can assume each string only contains upper and lower case letters and numbers; the length of each string is at most 1000.

Output You need to output to the console. The first line of the file is an integer indicating the length of the longest common subsequence between the two strings. The second line contains the longest common subsequence (which may not be unique).

Sample input (from the course slides)

bacdca
adbcda

Output for sample input

4
adca