

Module - 30.5: Practice Problems

Solve the following problems two problems:

- a. Write the DP state
- b. Write the recurrence relation
- c. Write the base case
- d. Discuss the **time** and **space** complexity
- e. Write program in C++ using both **memoization** and **tabulation** method

Problem - 1: [Longest Palindromic Subsequence](#)

Hint - Make a copy of the input string and reverse it. Now, what if we calculate the LCS of these two strings?

Problem - 2: [Delete Operation for Two Strings](#)