DP28: [Longest Palindromic subsequence](https://leetcode.com/problems/longest-palindromic-subsequence/) - variation of LCS

**Approach**:

Palindrome: A string is palindrome means it is same if we read it from start or end.

Example- “aba” & “aba” is same that’s why aba is a palindrome.

In this ques we need to find the longest palindromic subsequence; since it is a palindromic subsequence so it can be read either from start or end in that string.

Example- bbbab

=>bbbb is the longest palindromic subsequence here

Because if we read it in bbbab or in babbb its same only so we have understood that longest palindromic subsequence is something that is longest common subsequence (LCS) in given string and in its reverse form.

=> Now, our task is to find the LCS for the given and its reverse form.

=> LCS(str, strReverse)