

Longest Palindromic Subsequence

What is Palindromic?

if we reverse the string we get the same string.

aba → aba
~~~~~  
↓  
Palindrome

## Problem Statement

[Suggest Edit](#)

You have been given a string 'A' consisting of lower case English letters. Your task is to find the length of the longest palindromic subsequence in 'A'.

A subsequence is a sequence generated from a string after deleting some or no characters of the string without changing the order of the remaining string characters. (i.e. "ace" is a subsequence of "abcde" while "aec" is not).

A string is said to be palindrome if the reverse of the string is the same as the actual string. For example, "abba" is a palindrome, but "abbc" is not a palindrome.

So, what is palindrome, we know that so, we have given a string  
and we have find the longest palindromic subsequence  
↓ common  
reverse of  
string = string

if we know, that reverse the string and we get the subsequence common  
it would be palindromic

abcdehaeh → <sup>he</sup>~~eh~~ abc d c b a → palindromic  
↓  
Reverse the order is change  
What is common subsequence  
This is common subsequence

Just reverse the string and  
call normal LCS function

