

## DP Concepts (video 25) (uestions

codestorywithMIK

HIGUI (Motivation) a rehearsal for a life

that you are going

to Lead in Juture...

Do it carefully

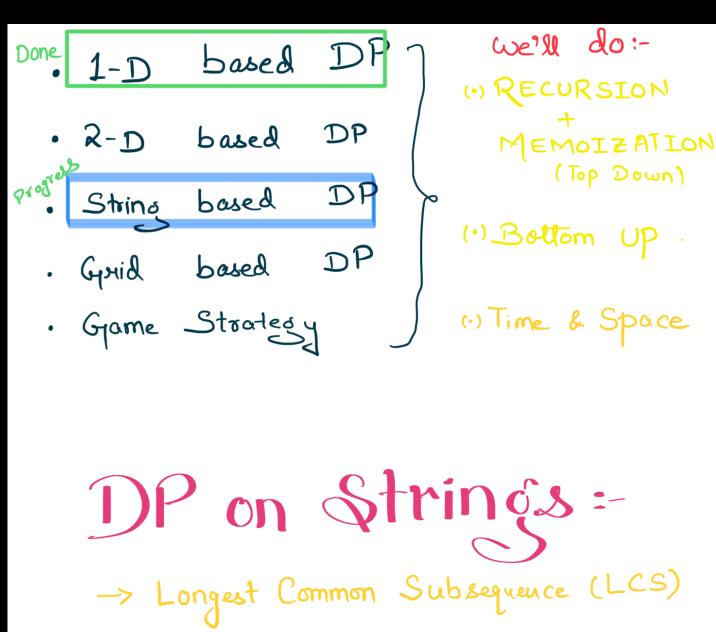
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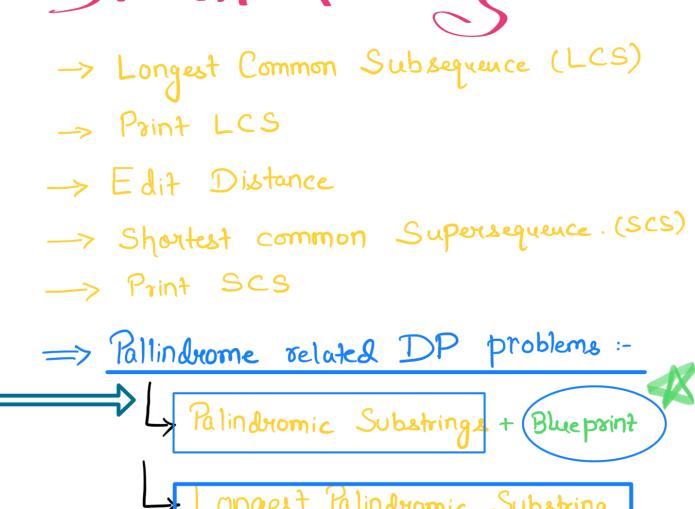
cswithMIK -> Twitter

Facebook ] -> code storywithMIK

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Ongest Palindromic Substring

## 516. Longest Palindromic Subsequence

Solved 🕑

Medium

♥ Topics

Companies

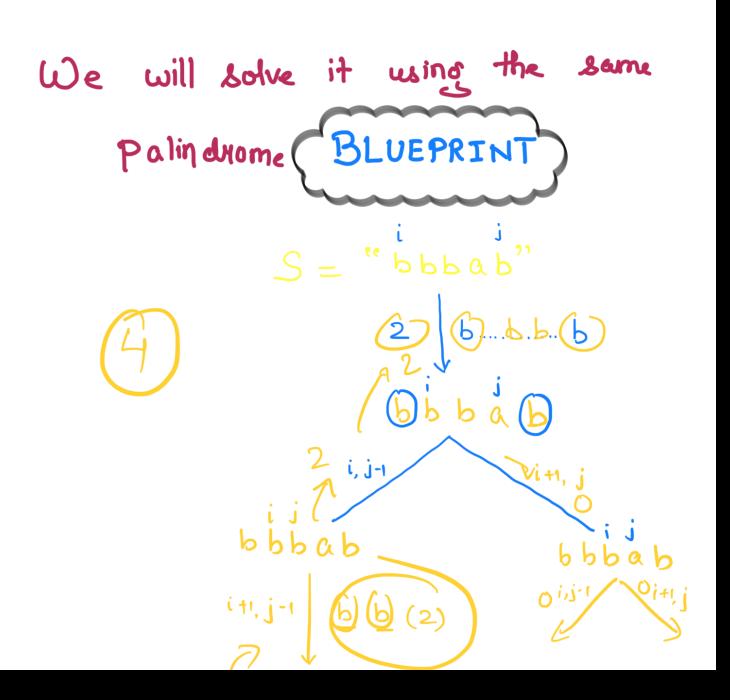
Given a string s, find the longest palindromic subsequence's length in s.

A **subsequence** is a sequence that can be derived from another sequence by deleting some or no elements without changing the order of the remaining elements.

## LINK in the Description !!!



L> Recussion + Memo 
$$\rightarrow 2$$
 ways  
L> Bottom UP



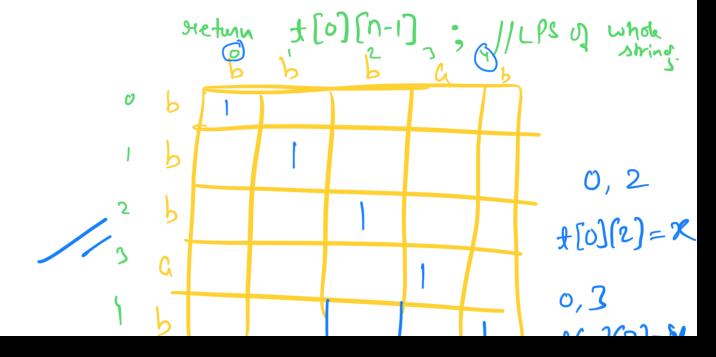
bbbab

Blueprint: (Bottomor)

S = " & & b a b"

LPS

f[i][j] = LPS q S[i...j]



#(0)(1)=}

·) L = 1 -> LPS=1 -> Palindrane.

$$for(int L=2; L <= n ; L ++)$$

$$for(int i=0; i < n-L+1; i++)$$

return +[0] (n-1];

 $\frac{1}{S} = O(n^2)$   $S = O(n^2)$ 

