

## Video 24 Questions

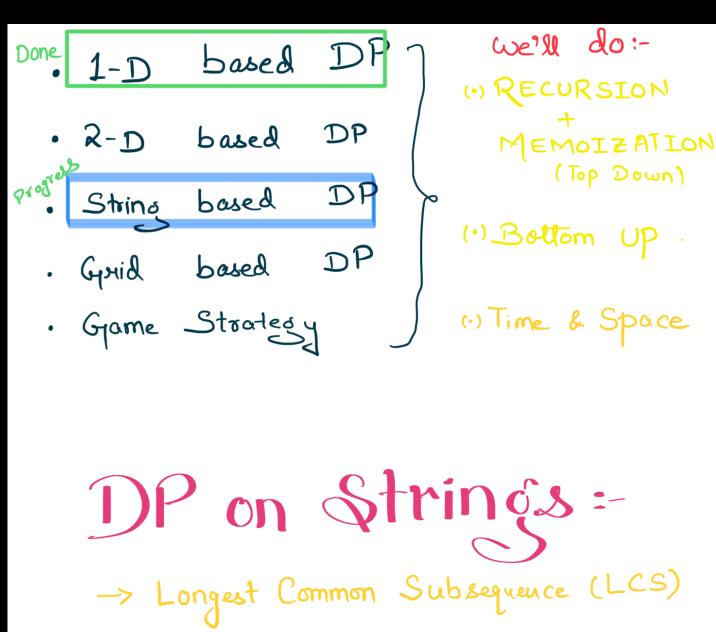


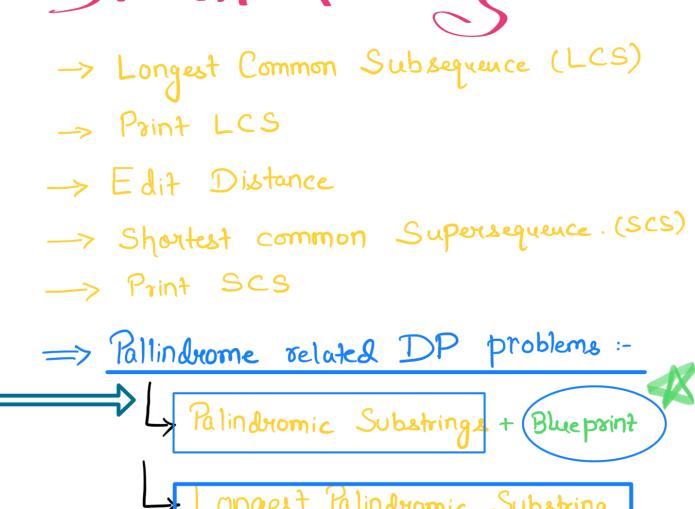
419UI (Motivation) up the Good to go for the Great. Trust in your journey and Keep pushing forward...

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Ongest Palindromic Substring

## 5. Longest Palindromic Substring

Medium

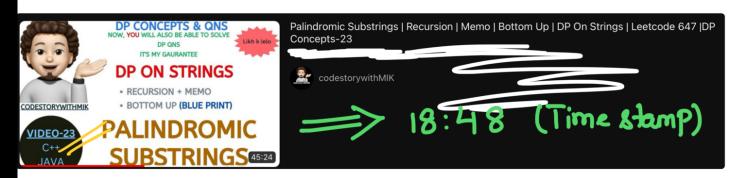


Given a string s, return the longest palindromic substring in s.

Example: "babad" Output: "bab"



First go and see the intuition & thought Process behind this Blue Print.



State definition: - I[i][j]

+[i][j] -> True -> S[i...j] -> Palindrome

+[i][j] -> False -> S[i...j] -> Not a palindrome

Hength = 1 of the substing always = Pal:

$$\frac{1}{1} \left[ \frac{1}{1} \right] = \frac{1}{1} \left$$

$$ij(s[i] == s[j] \quad \text{all } f[i+i](j-i) == inu,$$

## 1[i][j]= True;

```
→ True.
L = 1
L >=2
             " abacaba"
  maxl = 1; idx = -1;
for((L=2;) L <=n; L++) à
        for ( i=0; i < n-L+1; i++) }
                   j= i+ L-1 9
                   ||(S[i] = = S[j])|| & & L = = 2)
                          f[i][j] = True; marl=?
                   } else i) (STi) == STj) && +[i+i][j-j]
                           A(i) (j) = True.
                            i) (j-i+1 > maxL) (
y maxl = j-i+1; ldx=i;
                  } elx {
                           t(i)(j)= False;
```

Metunn S. substr (idx, maxl);



