

DP Concept video 28 Questions



CONSISTENCY is the Key to mastery.

Show up everyday, even when it's tough ...

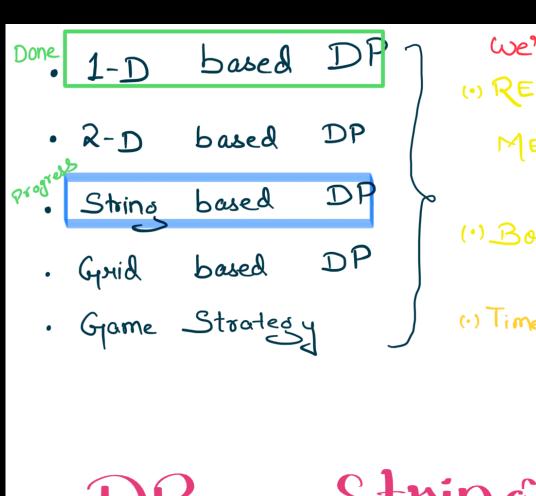
99

HIGUI (Motivation)

cswithMIK -> Twitter

Facebook] -> code storywithMIK

whatsapp -> codestory withMIK



```
We'll do:-

() RECURSION

+
MEMOIZATION

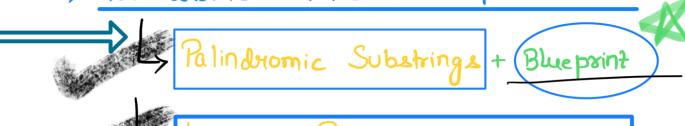
(Top Down)

(') Bottom Up.
```

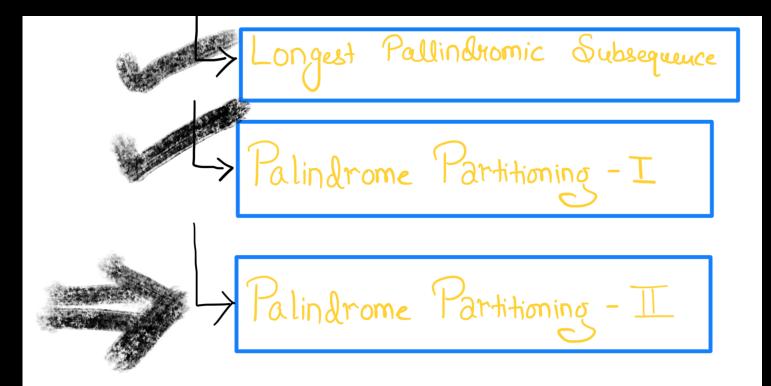


- -> Longest Common Subsequence (LCS)
- -> Print LCS
- -> Edit Distance
- -> Shortest common Supersequence. (SCS)
- -> Print SCS





Longest Palindromic Substring



132. Palindrome Partitioning II

Hard

▼ Topics

Companies

Given a string s, partition s such that every substring of the partition is a palindrome.

Return the **minimum** cuts needed for a palindrome partitioning of s.

A = 1

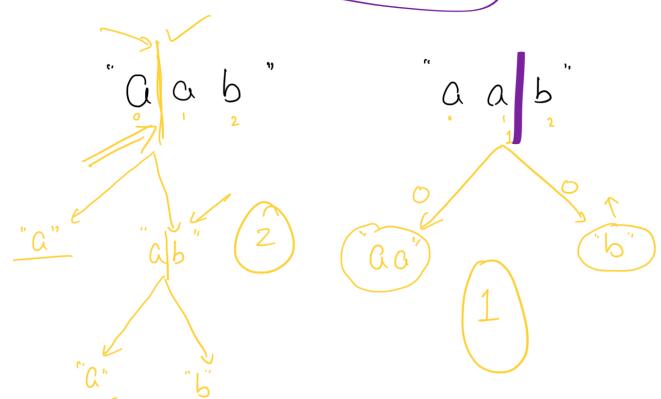
$$S = "aba"$$

$$Output = 0$$

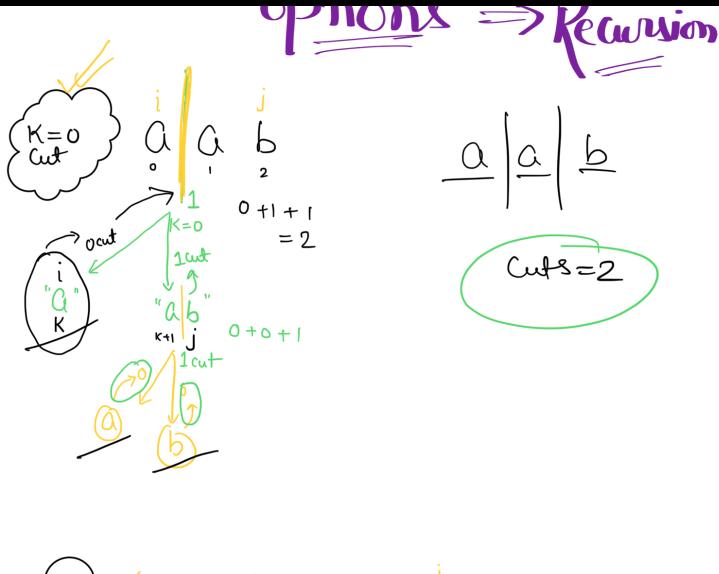
$$S = "abcb"$$

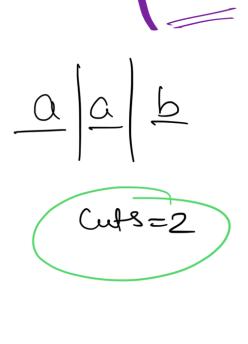
$$Output = 1$$

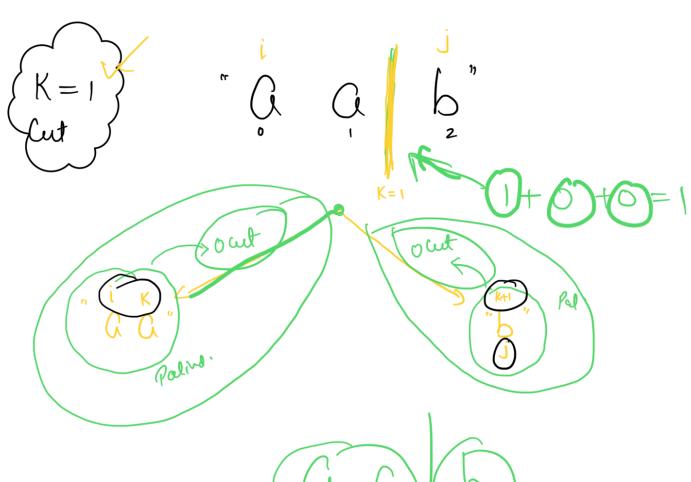
Recursion + Memoization

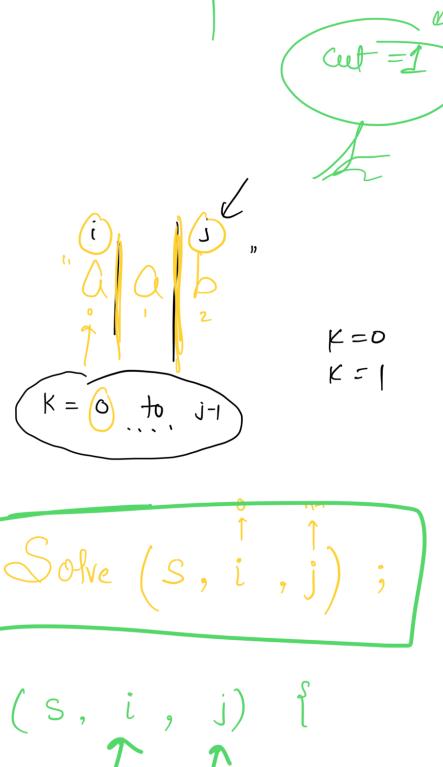


Obbione O









return 0; //No cut mg.

int result = INT_HAX;

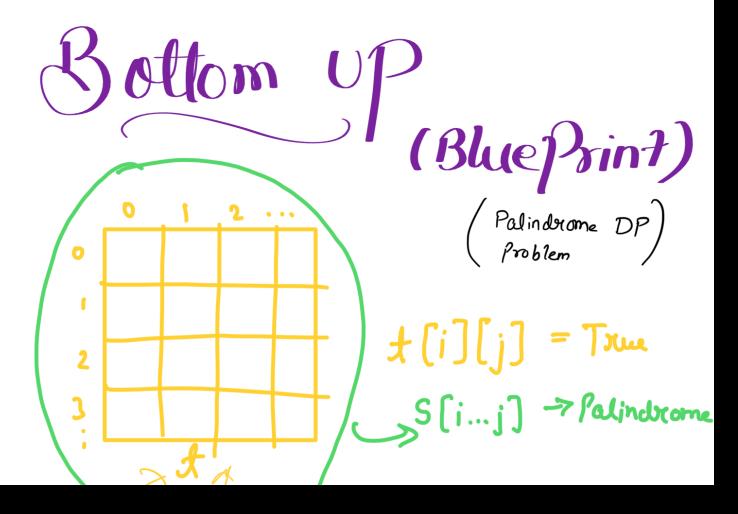
for (in)
$$K = i$$
; $K < j-1$; $K + i$) {

int temp = (1) + (Solve(s, i, k)) +

(Solve(s, K+1, j));

Hesult = min(result, temp);

Metun result;



$$dp(y) = 1$$

dp[i] = min cuts to split a s[0...i] into pal.

S[i...j] is Not gal.

2) Build de avorag by tring all possible cuts at diffindices.

dP[i] = S[o...i] → How many cuts (min)
will be seques
S[o... n-1]

se tun dp (n-1);