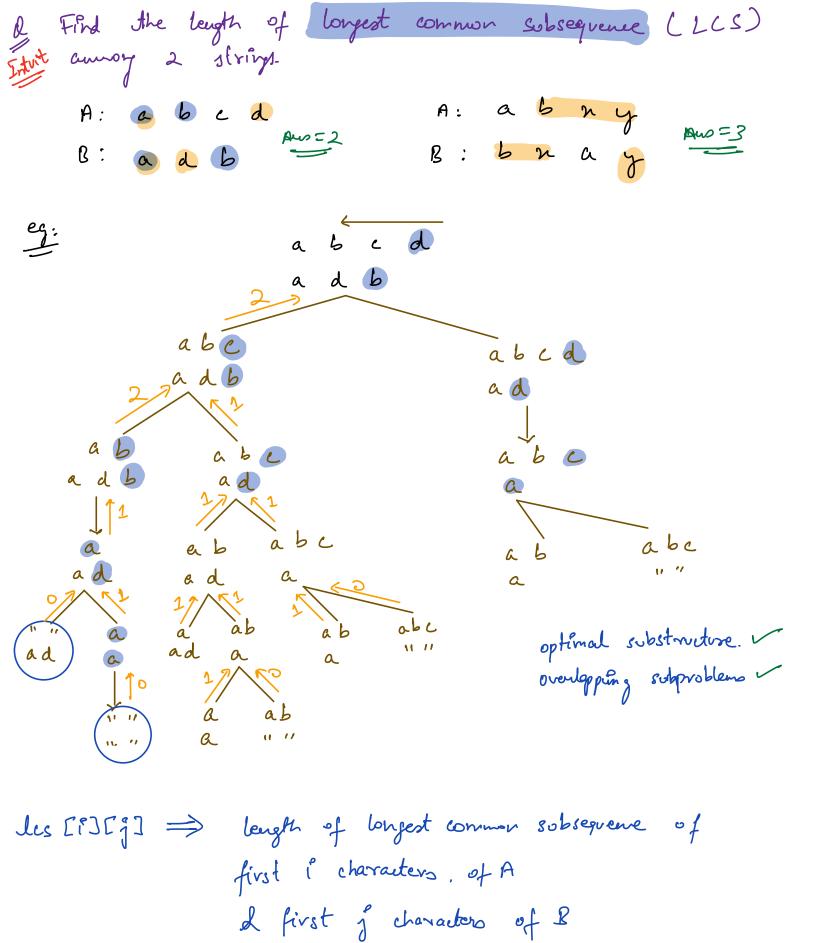
Agenda: DP on strings. 3 questions. of Fine the min cost to convert string A to string B. -> 1) insertion of any that -> 2 2) deletion of any cher -> 2 3) update any chav -A: ab PX optimal substructure overlapping subproblems

Welcome 😊

wst[i][j] => min east. Its convert first i characters, of A
to first j characters of R

T.C > O(N\*M) S.C > O(n\*m) -> O(2\*m) ~ O(m)



"?" -> match with any 1 character ( enactly 1)
"\* " -> match with any number of characters.

( including empty sequence)

n?y + 3 S: nay 3 na

match (°ICj] => check if first i characters of R
matches with first j characters of S

if (i==0 dl j==0) -> True

where [1][j] == obeif (i==0) -> false.

clocif (j==0) {

if (R[i]==\*) -> match [i-1][j]

else if (R[i]== S[j]) -> match [i-1][j-i]

clocif (R[i]== 1?i) -> match [i-1][j-i]

else if 
$$C RCi^2 = = '*') \rightarrow match [i-i]Cj^2$$

| match [i] [j-i]

close  $\longrightarrow$  false.

$$T.C \rightarrow O(N*M)$$
  
 $S.C \rightarrow O(N*M) \rightarrow O(2*M) \simeq O(M)$