

Aa 💝 🗏

# Programming



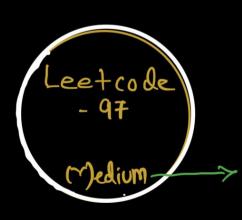
Note:- This playlist is only for explanation of ans & solutions.



6

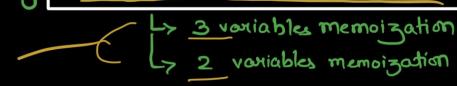
See my DP Concepts & and Playlist for understanding DP from Scratch...

 $\bigcirc$ 



Facebook ] -> code storywith MIK
Twitter -> cswith MIK

> Easy Simple Recursion + Memoization







Company



yahoo!

**~** Zillious

#### 97. Interleaving String

Medium 6759

**\$7** 408

Add to List

Given strings s1, s2, and s3, find whether s3 is formed by an interleaving of s1 and s2.

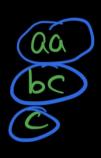
An interleaving of two strings s and t is a configuration where s and t are divided into n and m substrings respectively, such that:

- $s = s_1 + s_2 + ... + s_n$
- $t = t_1 + t_2 + ... + t_m$
- |n m| <= 1
- The **interleaving** is  $s_1 + t_1 + s_2 + t_2 + s_3 + t_3 + \dots$  or  $t_1 + s_1 + t_2 + s_2 + t_3 + s_3 + \dots$

Note: a + b is the concatenation of strings a and b.



### S3=Qadbbcbcac



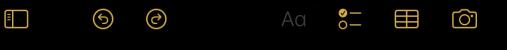
$$SI = M$$

Since 
$$S = N$$

Since  $S = N$ 

Since

#### aadbbcbcac



$$S3 = \text{"aab"}$$

$$S1 = \text{"aab"}$$

$$S2 = \text{"aab"}$$

 $\bigcirc$ 

 $\odot$ 

■ S @ Aa S= ■ O Û (A) O Ø

He tun I tue;

result = solve(i+1, j);

result = Solve (i, j+1)

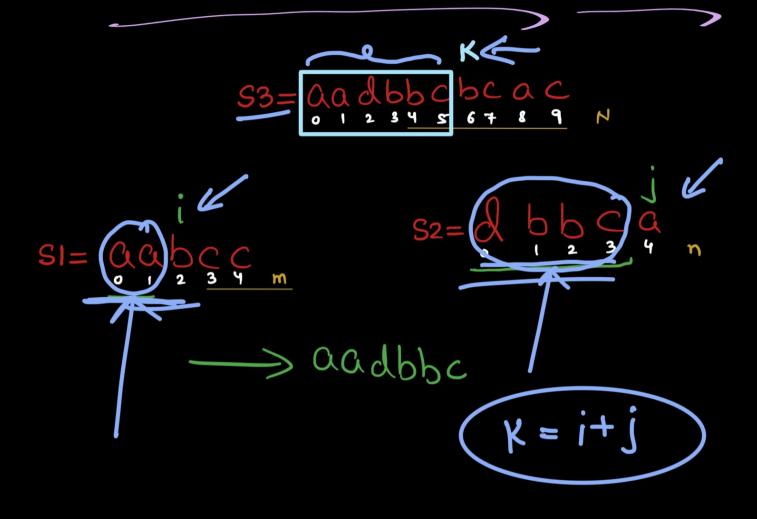
ret result

Mair

+ [101] [101] [101];



## 2-Variables Memo\*



(mxn)























