Count Palindromic Substrings

adbecba

			et				
	0		2	3	4	5	6
	Ç.	4	Ь	د	c	ط	<u>a</u>
۵ ٥	т	L	F	F	F	€	F
٦ ١	Х	+	F	£	F	F	F
6 2	Х	۲	Τ	F	F	Τ	F
c 3	۲	*	Х	۲	ア	F	F
c y	Х	Х	ኦ	Х	٦	F	¢
b S	Х	Х	X	*	X	τ	F
a (*	X	X	Y	X	X	+

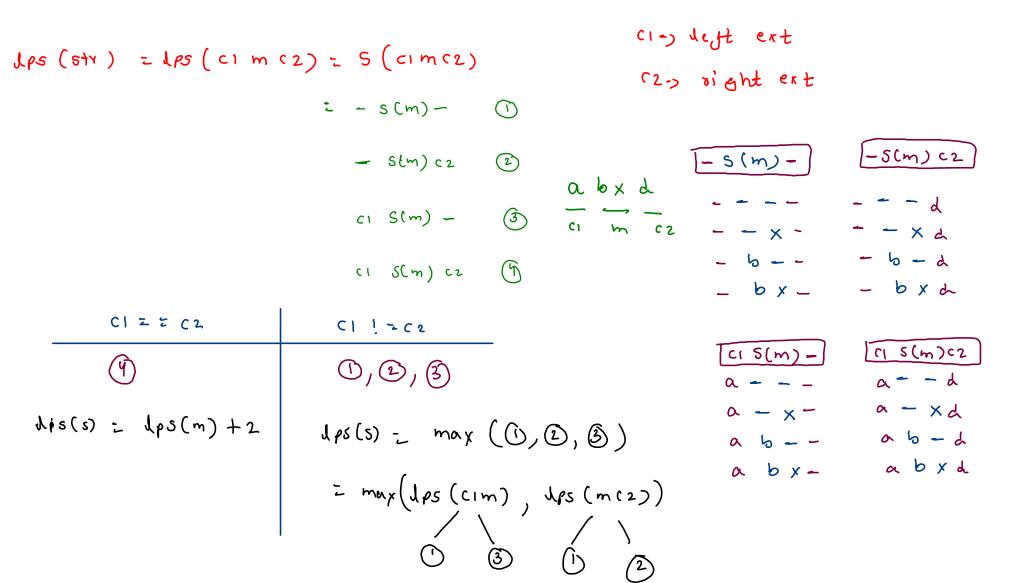
$$\frac{1}{3}$$
 -> $\frac{1}{3}$ -> $\frac{1$

dongest: last true (diogonal)

Longest Palindromic Subsequences

Str: abakb brute Jorce: 27

ans: 3



: - s(m) - (1)

C1 = = c2

- S(m) c2 (2)

a b k g e k a j a

c1 S(m) - 3

ci Scm) cz (5

3-, a Kgka

a Kgk a

string: able ccbc

dp (i,j) -> dongest palindromic

subs eq of

Storney from ito's

Count Palindromic Subsequences

abckb

a bb bcb
bkb
c
k
b

Count = 8

Count Palindromic Subsequences

CI IIC2

COS(547) 2 1 +2 +3 +1

1+2+3+9

= 0 + 0 + 0 + 0 + 1

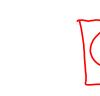
cps (mcz) + cps(cim)+1

$$\frac{1}{2} - \frac{5(m c_2)}{2}$$

$$z - S(m) - 0$$
 $- S(m) cz 2$

C1 - C2

9







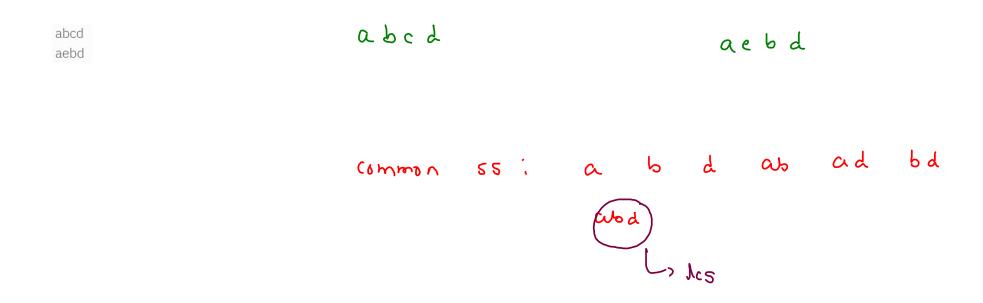
cps(sh) = cps(cim(2)) = cps(cim) + cps(m(2)+1) cps(cim) + cps(m(2)-cps(m)) = cps(cim) + cps(cim) + cps(m(2)-cps(m)) = cps(cim) + cps(cim) + cps(m(2)-cps(m)) = cps(cim) + cps(cim) + cps(cim) + cps(cim) = cps(cim) + cp

m mc2

count of palindrom

subseq of string

Longest Common Subsequence

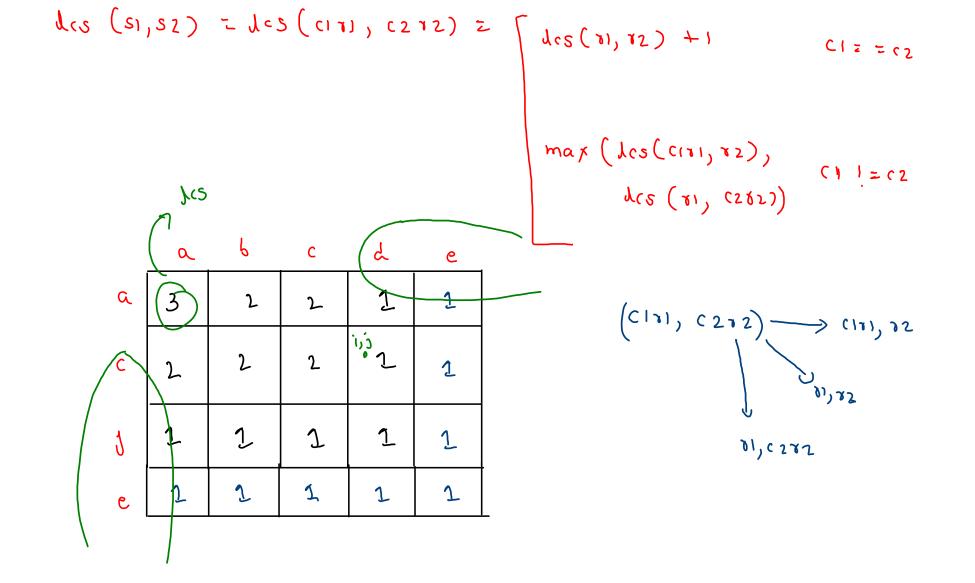


$$dcs(s_1, s_2) = dcs(c_{11}, c_{212})$$

$$= s(c_{11}) \times s(c_{212})$$

$$d \qquad bcd \qquad = \begin{bmatrix} -s(s_1) \\ c_1s(s_1) \end{bmatrix} \times \begin{bmatrix} -s(s_2) \\ c_2s(s_2) \end{bmatrix} \qquad c_1 > stranting that denotes the straining straining straining straining that denotes the straining straining that denotes the straining straini$$

ab d



```
S) :
                                                                      abje
for(int i = dp.length-2; i >= 0;i--) {
   for(int j = dp[0].length-2; j >= 0; j--) {
      if(s1.charAt(i) == s2.charAt(j)) {
          dp[i][j] = dp[i+1][j+1] + 1;
                                                             52:
                                                                       akbcm
      else {
          dp[i][j] = Math.max(dp[i+1][j], dp[i][j+1]);
}
                                                  16
                                                             b
                                                                       \mathsf{C}
                                                                                 m
                                  0
                                                    2
                                                              2
                                                                                 0
                                                                                         0
                                   b
                                            2
                                                     2
                                                              2
                                                                                         0
                                                                                  9
                                                              1
                                                                                 0
                                                                       1
                                                                                         Ò
                                  C
                                                                                         0
                                                                                 0
                                           1
                                                   0
                                                              0
                                                                        D
                                           0
                                                                                 0
                                                                                         0
```