

⇒ String misc.

str :-

abbccdddeeeeffggheeeccc
1 2 3 4 5 2 2 2 2 4

max len = 5
char = 'e'

Approach 1

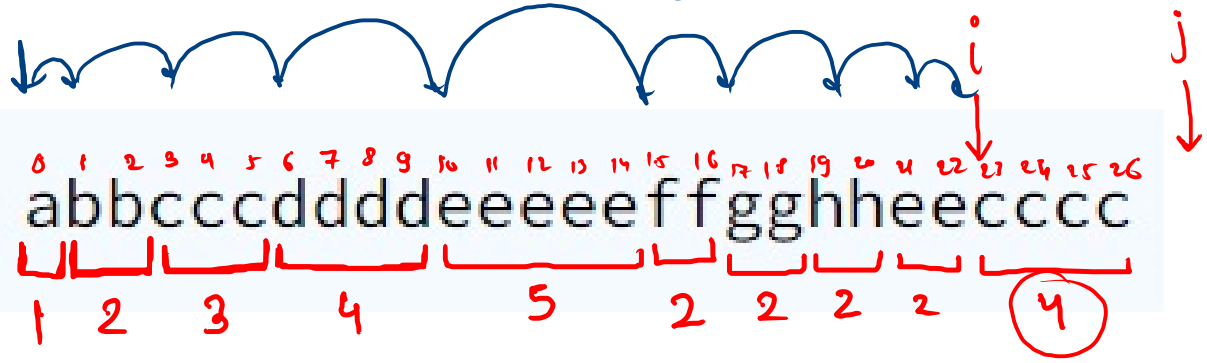
↳ a
↳ ab
↳ abb
⋮

↳ b
↳ bb
↳ bbc
↳ bbcc
⋮

↳ c
↳ cc
↳ ccc
↳ cccd
⋮

TLE

$$T.C = O(N), N = \text{length}$$



str :-

2 pointer ap.

last seq.
need to be
considered
after loop

In worst case

$2 \times N$

ans = ~~0~~
~~1~~
~~2~~
~~3~~
~~4~~
5

```

for
    if ( char at i == char at j )
        j++;
    else
        ans = max(ans, j - i);
        i = j;
  
```

code

$len = \underline{\underline{\max(5, 2)}}$

$n = 27$
 $\text{len} = 0 \cancel{1} \cancel{2} \cancel{3} \cancel{4} \cancel{5} 8 \swarrow$

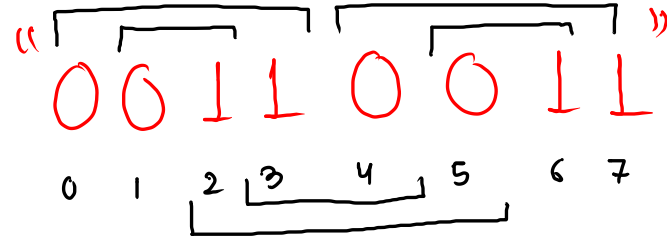
Count = 1 2 1 2 3 1 2 3 4 1 2
3 4 5 1 2 3 2 1 2 1 2 1
2 3 4 5 6 7 8

3456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

pc

Count Substring of 0 and 1

str = "00110011"



(1, 2) → 01

(0, 3) → 0011

(4, 7) → 0011

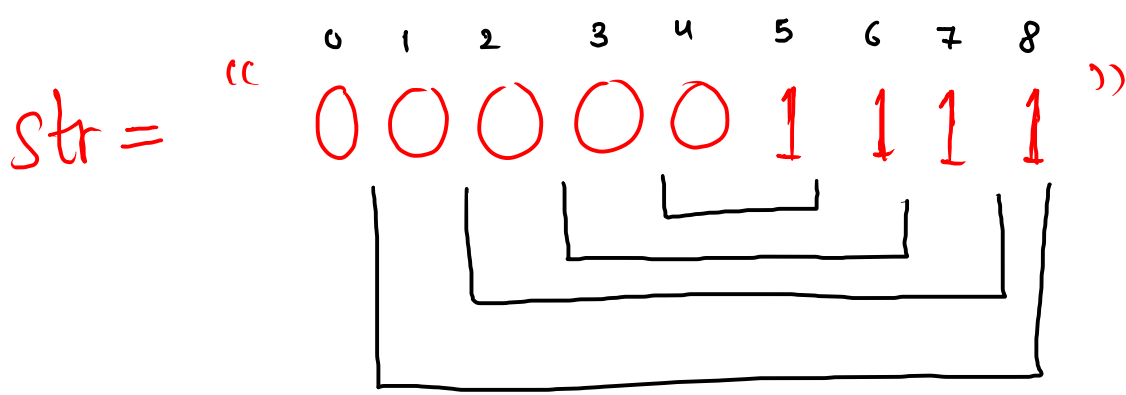
(5, 6) → 01

(2, 5) → 1100

(3, 4) → 10

} = 6

↳ equal 0's & 1's
↳ all zero and all one's should be grouped together



$$\underline{\underline{\text{ans} = 4}}$$

Intuition :- count 0's and count 1's

so, for 1 sequence/pair ans would
be $\min(0's, 1's)$

str = "0061111100111100000000"

	no. of 0's	no. of 1's	ans
① pair =	3	5	3
② pair =	2	5	2
③ pair =	2	4	2
④ pair =	7	4	4
			11