18. You are given a linked list with head node as A, and also an integer B.

You need to change the value of each node to its nearest multiple of B that is > current value.

ex: A:
$$1 \rightarrow 2 \rightarrow 3$$
 $0 \neq 3 \rightarrow 4$

B: $2 \rightarrow 4 \rightarrow 5$ $0 \neq 3 \rightarrow 6 \rightarrow 6$

B: $3 \rightarrow 4 \rightarrow 5$

ideal:

Try incrementing every node value by 1 till it becomes a multiple of B.

A: 11 -> 12 -> 33 -> 50

B: 10.

Idea?: $(A(i)//B) \rightarrow q$ which d ans d = (q uo tient +1) d B.

```
def modity hist (A,B)

{

current = A.

while (current! = null)

if (current.val y.B!=0)

| quotient = (current.val/B)

current.val = (quotient +1) &B.

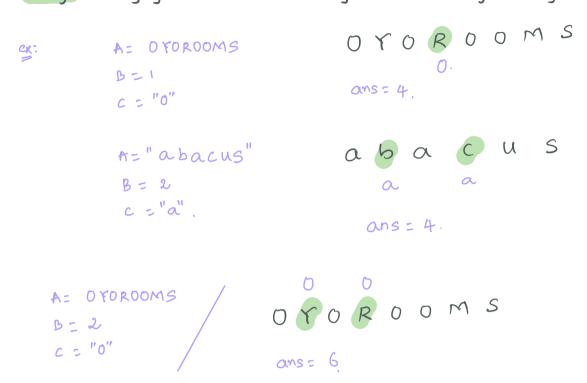
current = current.next

}

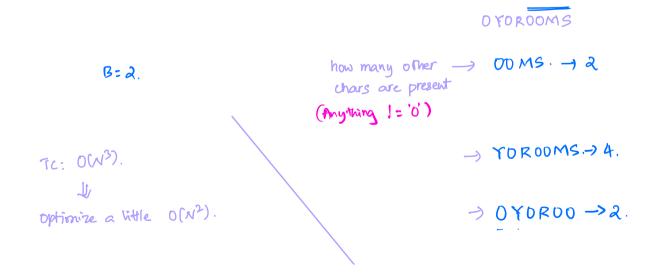
return A
```

20. You are given a string A, how many contiguous character 'c' you can get by doing B number of changes in the string at the most.

Change: changing a character at any index in the given string.

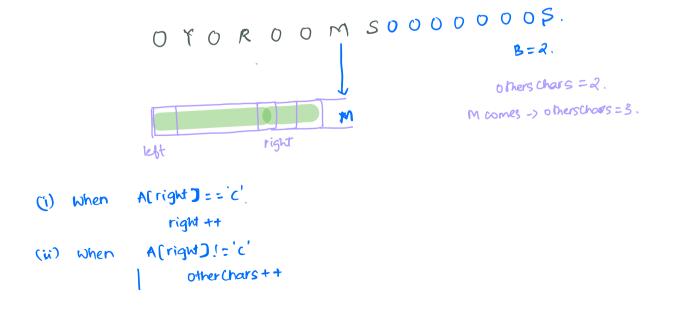


Ideal: Consider every substring, calculate other chars in them. If count (other chars) $\leq B =$ it's a possible answer. Keep updating max^M.



```
max continuous chars (A,B,C,n)
2
      ans=0.
                                                      OYORODMS.
      for i in range (0, n)
          other chars = 0.
           for j in range(i, n)
                                                               C = 0.
               // substring [: j].
                                                            (Ō)
               if (ACj)!=c)
                    others chars = others chars +1
                                                           OTOR DOM S
               if (otherschars & B)
                                                            20 Merchars.
                    cons = max (ans, j-iti)
               else
                                                          TC: 0(N2).
                   break
       return ans;
  4
```

Can we împrove?



```
if (other chars > B)

"move left accordingly."
 ans = max (ans, right-left+1).
```

```
max Continuous Chars (A, B, C)
def
                                                             ans=
કૃ
       left = 0, right = 0, ans = 0, other chars = 0.
        while (right < len(A))
        2
              if (A(right)!=c)
                                                         otherchars = 2
                   other chars = other chars +1
                                                          ans =9
               while (other chars > B)
                    it (A(left)! = c)
                         Other Chars = Other Chars -1
                    left = left +1
                ans: max (ans, right -left +1)
                right = right+1
         return ans
```

```
B=2, C='0'
01234567891011
OYOROMODOODS.
```