```
> Power of a String
```

```
public static int powerString(String str) {
    int i = 0;
    int count = 1;
    int ans = 0;
   -while (i < str.length()) {
         int j = i + 1;
       while (j < str.length()) {
            if ( str.charAt(i) != str.charAt(j) ) {
     ans = Math.max( ans, count );
     count = 1;
     break;
 ans = Math.max(ans, count);
    return ans;
```

approch3

aadd cccc bbbbb 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

$$count = X 23X 3X 28X8X2$$

$$ans = 835$$

if unequal

4 potential point to update

curs

else

4 keep incrementing count

```
approch 3
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    System.out.println(powerString(str));
public static int powerString(String str) {
    int count = 1;
    int ans = 0;
    for (int i = 0; i < str.length() - 1; i++) {
        if ( str.charAt(i) == str.charAt(i + 1) ) {
            count++;
        } else {
            ans = Math.max(ans, count);
            count = 1;
    ans = Math.max(ans, count);
    return ans;
```

Count Substring of 0 and 1

$$0011 \to (0,3)$$

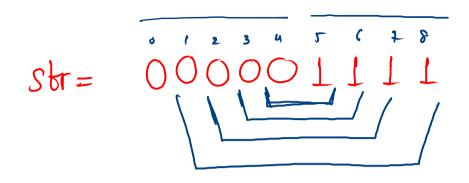
$$1100 \to (2,5)$$

$$0011 \to (4,7)$$

$$01 \to (1,2)$$

$$10 \to (3,4)$$

$$01 \to (5,6)$$



$$01 - (4,5)$$
 $0011 - (3,6)$
 $000111 - (2,7)$
 $00001111 - (1,8)$

example. useless

countzero = 5
$$\int$$
, mim (5,10) = 5
cruntone = 10 \int

example 2 ours = 10 11 / 12 01

$$ans = 3 + 2 + 2 + 3 = 10$$

Approch

```
public static int count01(String str) {
    int i = 0:
    int n = str.length();
    int ans = 0;
    while (i < n) {
        int countZero = 0;
        int countOne = 0;
      __ if ( str.charAt(i) == '0' ) {
           _while ( i < n && str.charAt(i) == '0' ) {
                 countZero++;
                 j++;
            int j = i;
           while (j < n && str.charAt(j) == '1') {</pre>
                 countOne++;
                 j++;
      - } else {
          while ( i < n && str.charAt(i) == '1' ) {</pre>
                 countOne++;
                 j++;
            int j = i;
           \Gammawhile ( j < n && str.charAt(j) == '0' ) {
                 countZero++;
                 j++;
        ans += Math.min( countZero, countOne );
    return ans;
```

$$\int_{S}^{S} \frac{1}{1} \frac{$$



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    System.out.println(count01(str));
public static int count01(String str) {
   int curr = 1;
   int prev = 0;
   int ans = 0;
   for (int i = 1; i < str.length(); i++) {
        if ( str.charAt(i) == str.charAt(i - 1) ) {
            curr++;
       } else {
            ans += Math.min( curr, prev );
            prev = curr;
           curr = 1;
    ans += Math.min( curr, prev );
    return ans;
```