



Ques Consecutive 0's & 1's

00110011

Bruteforce

- 1 Find all substring
- 2 Count substrings having equal # of 0's & 1's

3 Count ++;

Count =

↓  
All substrings

# of 0's and # of 1's are same

Optimized

0 1 2 3 4 5 6 7  
0 0 1 1 0 0 1 1  
x x x x x x x x

count0 = 8

count1 = 8 + 2

ans = 2 + 4 + 6

ans += Math.max(count0's, count1's)

[00011111]

0011

1100

[01 0011  
000111]

count = Math.min(count0's, count1's);  
3 4

count = 3

```
int ans = 0;
int i = 0;
while(i < str.length()){
    int count0 = 0;
    int count1 = 0;
    if(str.charAt(i) == '1'){ // if starts from 1
        while(i < str.length() && str.charAt(i) == '1'){ // count no of consecutive 1's
            count1++;
            i++;
        }
        int j = i;
        while(j < str.length() && str.charAt(j) == '0'){ // count no of consecutive followed by 0's
            count0++;
            j++;
        }
    }
    else{ // if starts from 0
        while(i < str.length() && str.charAt(i) == '0'){ // count no of consecutive 0's
            count0++;
            i++;
        }
        int j = i;
        while(j < str.length() && str.charAt(j) == '1'){ // count no of consecutive followed by 1's
            count1++;
            j++;
        }
    }
    ans += Math.min(count0, count1);
    i++;
}
```

System.out.println(ans);  
/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named

Ques

Long pressed keyboard.

string str1 = "alex"  
string str2 = "aaleex"

alex

True

false

false

true

```
public static void main(String[] args) {  
    Scanner scn = new Scanner(System.in);  
    String str1= scn.nextLine();  
    String str2= scn.nextLine();
```

```
    int i=0;
```

```
    int j=0;
```

```
    while(i<str1.length()){
```

```
        if(str1.charAt(i)== str2.charAt(j)){
```

```
            i++;
```

```
            j++;
```

```
        }else if(j<str2.length() && str2.charAt(j)== str2.charAt(j-1)){
```

```
            j++;
```

```
        }else{
```

```
            System.out.println("false");
```

```
            return;
```

```
        }
```

```
    }
```

```
    System.out.println(i==str1.length());
```

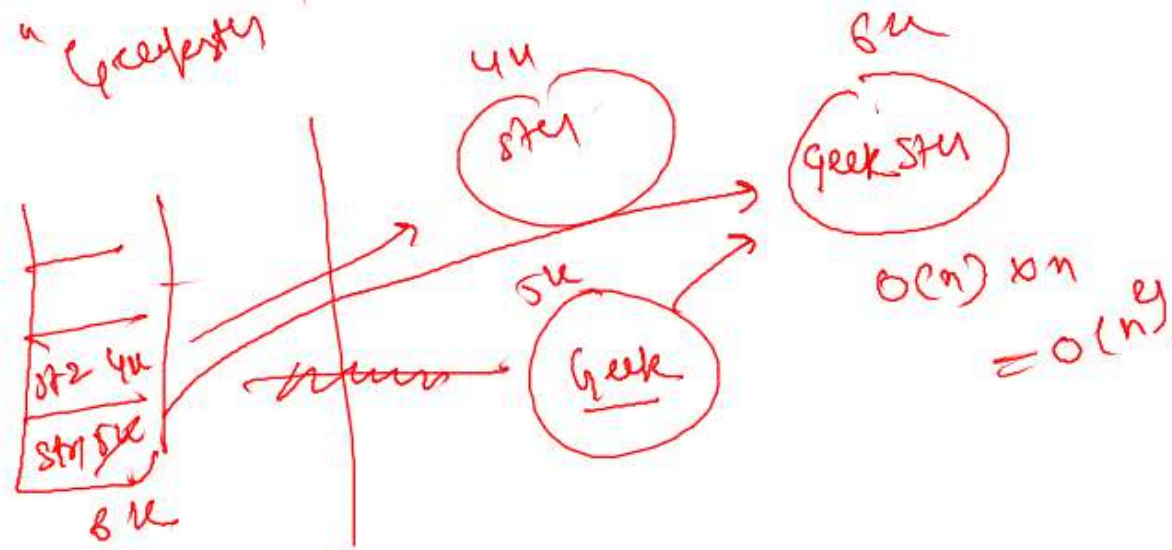
```
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your
```

```
    */
```

alex  
aaleex

conditional  
(==) true false

str1 = "Geek"  
 str2 = "str"  
 str1 + str2 = "Geekstr"



```

public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str1 = scn.nextLine();
    String str2 = scn.nextLine();

    StringBuilder sb = new StringBuilder();
    int i=0;
    while(i<str1.length()){
        sb.append(str1.charAt(i));
        sb.append(str2.charAt(i));
        i++;
    }

    System.out.println(sb.toString());
    /* Enter your code here. Read input from STDIN. Print output to STDOUT.
  }
  
```