

**PRACTICE** 

COMPETE

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Q Search  $\square$   $\bigcirc$  adivamsi2000  $\vee$ 

Practice > Interview Preparation Kit > String Manipulation > Alternating Characters

# **Alternating Characters ☆**

Problem	Submissions	Leaderboard	Discussions	Editorial 🖰	Topics	
You are given a strir	ng containing characters	s $m{A}$ and $m{B}$ only. Your tas	sk is to change it into a	string such that	Author	amititkgp
there are no matching adjacent characters. To do this, you are allowed to delete zero or more characters in					Difficulty	Easy
the string.					Max Score	20
Your task is to find the minimum number of required deletions.					Submitted By	172637
For example, given the string $oldsymbol{s} = oldsymbol{A} oldsymbol{A} oldsymbol{B}$ , remove an $oldsymbol{A}$ at positions $oldsymbol{0}$ and $oldsymbol{3}$ to make $oldsymbol{s} = oldsymbol{A} oldsymbol{B} oldsymbol{A}$ in				NEED HELP?		
<b>2</b> deletions.					View discussions	
Function Description				☐ View editorial		
Complete the alternatingCharacters function in the editor below. It must return an integer representing the				_		
minimum number o	minimum number of deletions to make the alternating string.				♥ View top submissions	
alternatingCharacters has the following parameter(s):					RESOURCES	
• s: a string					String Basics	
Input Format					RATE THIS CHALLENGE	
The first line contain	he first line contains an integer $m{q}$ , the number of queries.				公 公 公 公 公	
The next $m{q}$ lines each	The next $m{q}$ lines each contain a string $m{s}$ .				MORE DETAILS	

#### Constraints

- $1 \le q \le 10$
- $1 \le |s| \le 10^5$
- ullet Each string  $oldsymbol{s}$  will consist only of characters  $oldsymbol{A}$  and  $oldsymbol{B}$

### **Output Format**

For each query, print the minimum number of deletions required on a new line.

#### Sample Input

5

AAAA

**BBBBB** 

**ABABABAB** 

BABABA

AAABBB

#### **Sample Output**

- 3
- 4
- 0
- 0
- 4

### **Explanation**

The characters marked red are the ones that can be deleted so that the string doesn't have matching consecutive characters.

→ Download problem statement
 → Download sample test cases
 ✓ Suggest Edits
 CHOOSE A TRANSLATION







```
AAAA -> A (3 deletions)

BBBBB -> B (4 deletions)

ABABABAB -> ABABABAB (0 deletions)

BABABA -> BABABA (0 deletions)

AAABBB -> AB (4 deletions)
```

```
Python 3
                            Change Theme
     #!/bin/python3
1
 2
 3
 4
     def alternatingCharacters(s):
         dels=0
 5
         for i in range(len(s)-1):
 6
             if(s[i]==s[i+1]):
                 dels+=1
 8
         print(dels)
9
10
11
     q = int(input())
```

## **Running Testcases**

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