

266A - Stones on the Table

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1 Problem

Problem Description : <https://codeforces.com/problemset/problem/266/A>

2 Objective

The objective of this problem is literally simple, we just have to count the minimum number of stones we have to remove from the string so that any neighboring stones had different colors.

Example :

$s = \text{RRRG}$

In the string s , s_1 has same color as s_0 , so we remove it from the string and the string will look like

$s = \text{RRG}$

This time, the new s_1 also has same color as s_0 , so we remove it from the string and the result would be

$s = \text{RG}$

Since there is no any neighboring characters in s_0 that has same color as s_0 , we don't have to remove any character from string s anymore, so the answer is 2

3 Solution

We can use sliding window technique for this problem. Firstly, we create a variable l , initially it points to index 0 and then we start the loop from 1 to n . We compare s_l with s_i and if they are same, then we increment the counter c , else we move the pointer l to i .

4 Code

```
#include <bits/stdc++.h>

int main(){
    fastio
    int n,l=0,c=0;
    string s;
    cin >> n >> s;

    for(int i = 1; i < n; i++) {
        if(s[i] == s[l]) {
            c++;
        } else {
            l = i;
        }
    }

    cout << c;

    return 0;
}
```