Las cartas de Dr. Lira

|  |  |  |  |
| --- | --- | --- | --- |
| Puntos |  | Límite de memoria | 16MB |
| Límite de tiempo (caso) | 0.5s | Límite de tiempo (total) | 60s |

Dr. Lira has NN cards in a row on a table, numbered from left to right from 00 to N−1N−1. Every card is black on one side and white on the other. The cards on the table may have either side facing up.

To activate his weapons arsenal, Dr. Lira needs the cards to have alternating colors, that is, every pair of consecutive cards needs to have different colors face up.

Since he's lazy, Dr. Lira has hired you to find what's the minimum number of cards he needs to flip so they have alternating colors.

**Input**

In the first line an integer, NN (3≤N≤503≤N≤50), indicating the number of cards Dr. Lira owns.  
In the second line, a string representing the configuration of the cards. If the ii-th character is BB, the ii-th card has the black side facing up. Similarly, if the ii-th character is WW, the ii-th card has the white side facing up.

**Output**

The minimum amount of cards that need to be flipped so the cards on the table have alternating colors.

**Sample**

| **Entrada** | **Salida** | **Descripción** |
| --- | --- | --- |
| 4  BBBW | 1 | Flipping the second card: BWBW |
| 5  WBWBW | 0 | There's no need to flip anything. |
| 9  WWWWWWWWW | 4 | Flipping 4 cards: WBWBWBWBW |

*Fuente: Joe (topcoder)*

Problema subido por: [Joemmanuel Ponce Galindo](https://omegaup.com/profile/joemmanuel/)

| **Enviado** | **GUID** | **Status** | **Porcentaje** | **Lenguaje** | **Memoria** | **Tiempo** | **Detalles** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [Nuevo envío](https://omegaup.com/arena/problem/CartasDrLira#problems/new-run) | | | | | | | | |
| 2016-10-23 03:14:02 | 636d32fb | Respuesta correcta | 100.00% | cpp | 3.11 MB | 0.01 s |  |  |
| **Envíos** | | | | | | | |

<https://omegaup.com/arena/problem/CartasDrLira#problems>

#include <iostream>

#include <stdio.h>

#include <vector>

using namespace std;

int main() {

int n;

scanf("%d", &n);

string cards;

cin >> cards;

string a, b;

for(int i =0; i<n; i++) {

if(i%2==0) {

a += 'W';

b += 'B';

}else{

a += 'B';

b += 'W';

}

}

int cont\_a =0, cont\_b =0;

for(int i =0; i < n; i++) {

if(cards[i] != a[i]) {

cont\_a++;

}

if(cards[i] != b[i]) {

cont\_b++;

}

}

cout << std::min(cont\_a, cont\_b) << endl;

system("pause");

return 0;

}