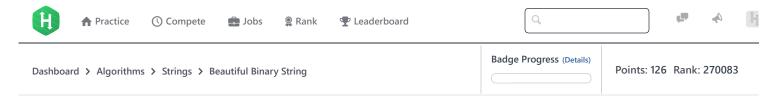
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Beautiful Binary String ■



Problem	Submissions	Leaderboard	Discussions	Editorial 🔒

Alice has a binary string, B, of length n. She thinks a binary string is beautiful if and only if it doesn't contain the substring "010".

In one step, Alice can change a 0 to a 1 (or vice-versa). Count and print the minimum number of steps needed to make Alice see the string as beautiful.

Input Format

The first line contains an integer, n (the length of binary string B). The second line contains a single binary string, B, of length n.

Constraints

- $1 \le n \le 100$
- Each character in $B \in \{0, 1\}$.

Output Format

Print the minimum number of steps needed to make the string beautiful.

Sample Input 0

7 0101010

Sample Output 0

4

Sample Input 1

5 01100

Sample Output 1

0

Sample Input 2

10 0100101010

Sample Output 2

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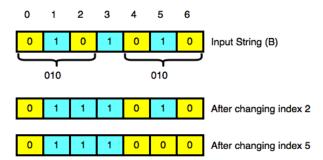
3

Explanation

Sample Case 0:

In this sample, B = "0101010"

The figure below shows a way to get rid of each instance of "010":



Because we were able to make the string beautiful by changing 2 characters (B_2 and B_5), we print 2.

Sample Case 1:

In this sample B = "01100"

The substring "010" does not occur in B_i , so the string is already beautiful and we print 0.

```
f in
Submissions:25959
Max Score:20
Difficulty: Easy
Rate This Challenge:
なななななな
```

```
Current Buffer (saved locally, editable) & 49
                                                                                          Java 7
                                                                                                                            Ö
1 ▼ import java.io.*;
2 import java.util.*;
   import java.text.*;
   import java.math.*;
   import java.util.regex.*;
6
7 ▼ public class Solution {
8
        static int minSteps(int n, String B){
9 🔻
10
            // Complete this function
11
12
13 ▼
        public static void main(String[] args) {
14
            Scanner in = new Scanner(System.in);
            int n = in.nextInt();
15
16
            String B = in.next();
17
            int result = minSteps(n, B);
18
            System.out.println(result);
19
20
    }
21
                                                                                                                    Line: 1 Col: 1
```

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<u>♣ Upload Code as File</u> Test against custom input

Run Code

Submit Code

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