Difficulty: Easy Points: 20

# Problem: Beautiful Binary String

Alice has a <u>binary string</u>, , of length . She thinks a binary string is beautiful if and only if it doesn't contain the <u>substring</u> .

In one step, Alice can change a to a (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, (the length of binary string).

The second line contains a single binary string, , of length .

#### **Constraints**

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Each character in.

## **Output Format**

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

## Sample Input 0

7

0101010

## Sample Output 0

2

## Sample Input 1

5

01100

#### Sample Output 1

0

#### Sample Input 2

10

0100101010

#### Sample Output 2

3

## **Explanation**

#### Sample Case 0:

In this sample,

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

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

# **Sample Case 1:**

In this sample

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

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# Solution

# **Elegant Solution**

```
int beautifulBinaryString(String b)
{
    return ( ( b.length() - b.replaceAll("010","").length() )/3 );
}
```