Alice has a binary string. 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.

## Example

$b=010$

She can change any one element and have a beautiful string.

## Function Description

Complete the beautifulBinaryString function in the editor below.
beautifulBinaryString has the following parameter(s):

- string $b$ : a string of binary digits


## Returns

- int: the minimum moves required


## Input Format

The first line contains an integer $n$, the length of binary string.
The second line contains a single binary string $b$.

## Constraints

- $1 \leq n \leq 100$
- $b[i] \in\{0,1\}$.


## Output Format

Print the minimum number of steps needed to make the string beautiful.
Sample Input 0

```
STDIN
Function
--------
length of string n = 7
0 1 0 1 0 1 0
b = '0101010'
```


## Sample Output 0

## Explanation 0:

In this sample, $b=" 0101010 "$
The figure below shows a way to get rid of each instance of " 010 ":


Make the string beautiful by changing 2 characters ( $b[2]$ and $b[5]$ ).

## Sample Input 1

```
5
0 1 1 0 0
```


## Sample Output 1

0

## Sample Case 1:

In this sample $b=" 01100 "$

## Explanation 1

The substring " 010 " does not occur in $b$, so the string is already beautiful in 0 moves.

## Sample Input 2

```
10
0100101010
```


## Sample Output 2

## Explanation 2

In this sample $b=" 0100101010 "$

One solution is to change the values of $b[2], b[5]$ and $b[9]$ to form a beautiful string.

