Beautiful Binary String

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

- $1 \leq n \leq 100$
- 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

```
2
```

Sample Input 1

```
5
01100
```

Sample Output 1

```
0
```

Sample Input 2

```
10
0100101010
```

Sample Output 2

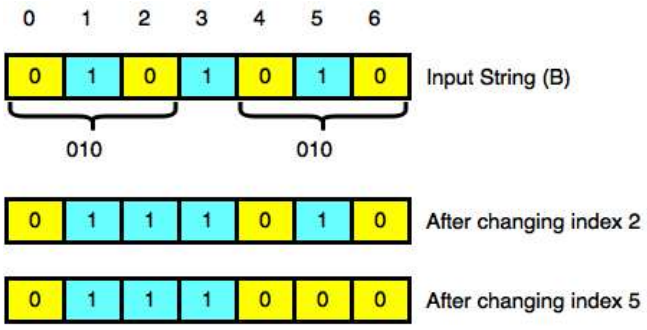
```
3
```

Explanation

Sample Case 0:

In this sample, $B = \text{"0101010"}$

The figure below shows a way to get rid of each instance of $\textbf{"010"}$:



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

Sample Case 1:

In this sample $B = \textbf{"01100"}$

The substring $\textbf{"010"}$ does not occur in B, so the string is already beautiful and we print $\textbf{0}$.