B. Jellyfish Lights

time limit per test

1 second

memory limit per test

256 megabytes

input

standard input

output

standard output

At the Jellyfish Aquarium, there is a tunnel with lights overhead where the jellyfish swim. Each light can be turned on (11) or off (00). To create a pleasant experience for the visitors, the lights must be arranged in an alternating pattern throughout the tunnel. However, due to some malfunction, the lights are currently in a random state.

Your task is to write a program that will find the minimum number of lights that need to be toggled to achieve the desired alternating pattern. There are two possible alternating patterns: starting with 00 (010101010101...) or starting with 11 (101010...)(101010...). Your program should consider both patterns and find the one that requires the fewest toggles.

**Input**

The first line contains an integer n� (1≤n≤100)(1≤�≤100) — the number of lights in the tunnel. The second line contains a string s� of length n�, representing the current state of the lights, where s[i]�[�] is either 0 or 1.

**Output**

Print a single integer — the minimum number of toggles needed to arrange the lights in an alternating pattern.

**Example**

**input**

**Copy**

5

01011

**output**

**Copy**

1

**Note**

In the example, toggling the last light changes the pattern to 0101001010, which is an alternating pattern starting with 00.