

## A. Case of the Zeros and Ones

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Andrewid the Android is a galaxy-famous detective. In his free time he likes to think about strings containing zeros and ones.

Once he thought about a string of length  $n$  consisting of zeroes and ones. Consider the following operation: we choose any two *adjacent* positions in the string, and if one them contains 0, and the other contains 1, then we are allowed to remove these two digits from the string, obtaining a string of length  $n - 2$  as a result.

Now Andreid thinks about what is the minimum length of the string that can remain after applying the described operation several times (possibly, zero)? Help him to calculate this number.

### Input

First line of the input contains a single integer  $n$  ( $1 \leq n \leq 2 \cdot 10^5$ ), the length of the string that Andreid has.

The second line contains the string of length  $n$  consisting only from zeros and ones.

### Output

Output the minimum length of the string that may remain after applying the described operations several times.

### Examples

<b>input</b>
4 1100
<b>output</b>
0
<b>input</b>
5 01010
<b>output</b>
1
<b>input</b>
8 11101111
<b>output</b>
6

### Note

In the first sample test it is possible to change the string like the following: .

In the second sample test it is possible to change the string like the following: .

In the third sample test it is possible to change the string like the following: .

### Codeforces Round #310 (Div. 2)

Finished

#### → Virtual participation

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Start virtual contest

#### → Problem tags

greedy

No tag edit access

#### → Contest materials

- Announcement 
- Tutorial 

