# 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 ( $1 \le n \le 2 \cdot 10^5$ ), 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**

input	
100	
output	

input	
1010	
output	

```
input

8
11101111

output

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: .