



1: Attention span

Level: Easy

Time limit: 1 second

Peter is an enthusiastic computer science student, however, the n labs each day are quite simple for Peter. In order for Peter to pay attention during the labs, he came up with a brilliant idea. In order to stay focussed, Peter needs to drink exactly one cup of Chocomel during each lab. Unfortunately for Peter not all labs halls in Science Park have Chocomel machines nearby, so Peter needs to grab the Chocomel when he can. Furthermore, Peter can only bring at most two Chocomel cups with him. Given which of Peter his labs have Chocomel machines, calculate the number of labs during which Peter can focus.

Input

The first line contains the integer n ($1 \leq n \leq 10^5$), the number of labs Peter has in his calendar. The second line contains a string s of length n . The i 'th character is 1 if there is a Chocomel machine nearby the i 'th lab, and otherwise it is 0.

Output

Print one integer, the maximum number of labs during which Peter can focus.

Sample input 1

```
10
1101011010
```

Sample input 2

```
10
0001010010
```

Sample input 3

```
1
0
```

Sample output 1

```
10
```

Sample output 2

```
7
```

Sample output 3

```
0
```