After a whole year of hard work Byteasar is taking a well-deserved vacation. He has decided to spend a part of the vacation on a beach. He has checked the weather forecast and now he knows, for each of the \( n \) days of his leave, will it be sunny or cloudy.

Byteasar would like to spend a few consecutive days at the seaside and he would like all of these days to be sunny. So he is wondering what is the maximum number of consecutive sunny days during his leave.

**Input**

The first line of input contains an integer \( n \) \((1 \leq n \leq 100\,000)\). The second line contains a word composed of \( n \) letters S and P. The \( i \)-th letter of this word (for \( 1 \leq i \leq n \)) describes the \( i \)-th day of Byteasar’s leave: the letter S denotes a sunny day and the letter P denotes a cloudy day.

**Output**

Your program should output a single integer equal to the maximum number of days that Byteasar can spend at the seaside.

**Example**

For the input data:  
5  
PSPSS  
the correct result is:  
2

**Explanation of the example:** Byteasar will spend the fourth and the fifth day of his leave at the seaside.