

Problem A

Finding Maximal Non-Trivial Monotones

In this problem we will be dealing with character sequences, often called *strings*. A sequence is *non-trivial* if it contains at least two elements.

Given a sequence s , we say that a chunk s_i, \dots, s_j is *monotone* if all its characters are equal, and we say that it is *maximal* if this chunk cannot be extended to left or right without losing the monotonicity.

Given a sequence composed only of characters “a” and “b”, determine how many characters “a” occur in non-trivial maximal monotone chunks.

Input

The input consists of two lines. The first line contains a single integer N , where $1 \leq N \leq 10^5$. The second line contains a string with exactly N characters, composed only of the characters “a” and “b”.

Output

Print a single line containing an integer representing the total number of times the character “a” occurs in non-trivial maximal monotone chunks.

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|--|------------------------------|
| Input example 1 7 abababa | Output example 1 0 |
| Input example 2 7 bababab | Output example 2 0 |
| Input example 3 10 aababaaabb | Output example 3 5 |
| Input example 4 10 bbaababaaa | Output example 4 5 |