A. Diagonal Walking

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Mikhail walks on a 2D plane. He can go either up or right. You are given a sequence of Mikhail's moves. He thinks that this sequence is too long and he wants to make it as short as possible.

In the given sequence moving up is described by character `U` and moving right is described by character `R`. Mikhail can replace any pair of consecutive moves `RU` or `UR` with a diagonal move (described as character `D`). After that, he can go on and do some other replacements, until there is no pair of consecutive moves `RU` or `UR` left.

Your problem is to print the minimum possible length of the sequence of moves after the replacements.

Input

The first line of the input contains one integer n ($1 \le n \le 100$) — the length of the sequence. The second line contains the sequence consisting of n characters `U` and `R`.

Output

Print the minimum possible length of the sequence of moves after all replacements are done.

Examples

input
5 RUURU
output
3

input
17 UUURRRRUUURURUUU
output
13

Note

In the first test the shortened sequence of moves may be `DUD` (its length is 3).

In the second test the shortened sequence of moves can be `UUDRRRDUDDUUU` (its length is 13).