

Problem F. The Walking Adam

Input file: adam.in
Output file: standard output
Balloon Color: Yellow

Adam has just started learning how to walk (with some help from his brother Omar), and he falls down a lot. In order to balance himself, he raises his hands up in the air (that's a true story), and once he puts his hands down, he falls.

You are given a string, each character represents a step he walks, if that character is 'U' that means his hands are up in this step, if this character is 'D' that means his hands are down and he fell down in this step. Your task is to count how many steps he will walk before falling down for the first time.

Input

Your program will be tested on one or more test cases. The first line of the input will be a single integer T ($1 \leq T \leq 100$) representing the number of test cases. Followed by T test cases.

Each test case will consist of a single line, containing a non-empty string of at most 100 characters, and each character is either 'U' or 'D'. The characters from left to right represent Adam's steps in the order he walks them.

Output

For each test case print a single line containing the number of steps that Adam will walk before falling down, or the length of the string if he won't fall down.

Example

adam.in	standard output
3	3
UUUDU	0
DDD	2
UU	

Note

In the first test case, he falls down after 3 steps.

In the second test case, he falls down before making any steps.

In the third test case, he doesn't fall down at all.