Problem D
Love Power Plant

Time limit: 1 second
Memory limit: 512 megabytes

Problem Description

A love power plant can generate a lot of energy. It is the cleanest power generator ever invented in the history. A love fuel stick is a string consisting of many `L`'s, `O`'s, `V`'s, and `E`'s. Love power plants generate power by consuming love fuel sticks as follows.

1. Find a subsequence `(L,O,V,E)` of the fuel stick, then remove it from the fuel stick to generate one gigawatt power.
2. If the fuel stick still has a subsequence `(L,O,V,E)`, then go to the previous step.

For example, `LLEOVEOLOVE` can generate at most two gigawatts power by the following steps.

1. The power plant remove the last four characters. This changes the fuel stick to `LLEOVEO`.
2. The power plant remove the 2nd, 4th, 5th, 6th characters. This change the fuel stick to `LEO`.

The government hires the best people to operate love power plants, so all fuel stick can generate as much energy as possible. Please write a program to determine how many gigawatts can be generated by a given fuel stick.

Input Format

The first line of the input contains a positive integer T indicating the number of test cases. Each test case is a line containing a love fuel stick.

You may assume:

- $1 \leq T \leq 100$
- All fuel stick are no longer than 100000.

Output Format

For each test case, output an integer P where the coressponding fuel stick can generate P gigawatts power.

Sample Input

```
2
LOVE
LLEOVEOLOVE
```

Sample Output

```
1
2
```