

Llama

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"Here's a llama, there's a llama, and another little llama,  
fuzzy llama, funny llama, llama llama duck.  
Llama llama cheesecake llama, tablet brick potato llama,  
llama llama mushroom llama, llama llama duck."
```

This is the first verse of the famous Llama song. (<https://www.youtube.com/watch?v=KMYN4djSq7o>)

The song's lyrics consist of words (sequences of lowercase and uppercase English alphabet letters). Words are separated by spaces, line breaks, and punctuation marks (.,?!'')

The song is composed of verses and choruses. Verses and choruses are separated by an empty line. A chorus differs from a verse in that it does not contain the word „llama“.

Your task is to compute the ratio of the counts of ducks and llamas in each verse.

Input

The input contains several (at most 1000) lines of text. Each line contains between 0 and 100 characters. These characters are lowercase and uppercase letters, spaces, and punctuation as listed in the problem statement. Each non-empty line contains at least one letter.

The input does not start or end with an empty line, and there are no two consecutive empty lines.

Output

The count of ducks in a verse is the count of occurrences of the word „duck,“ regardless of case. The count of llamas is the same for the word „llama.“

For each verse, print one line containing a fraction in the form „D / L.“ This fraction represents the ratio of the counts of ducks and llamas in that verse. Print the fraction in its simplest form.

Example

Input:

```
"Here's a llama, there's a llama, and another little llama,  
fuzzy llama, funny llama, llama llama duck.  
Llama llama cheesecake llama, tablet brick potato llama,  
llama llama mushroom llama, llama llama duck."
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I was once a treehouse, i lived in a cake,  
but i never saw the way the orange slayed the rake.  
I was only three years dead, but it told a tale,  
and now listen, little child, to the safety rail!
```

Here's a llama...

Output:

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1 / 8  
0 / 1
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