### Problem H. Dobra

Time Limit 1000 ms

Mem Limit 1048576 kB

OS Linux

Lea runs into a lot of words in her life. A lot of them she finds unpleasant. To compensate for that she started making up pleasant words. Lea makes up new words by writing a nice looking string of characters on a piece of paper. She than erases a few of the most nasty looking characters and replaces them with underscores '\_'. After that she tries to replace the underscores with more acceptable characters trying to form a pleasant word.

Lea considers words pleasant if they do not contain 3 sequential vowels, 3 sequential consonants and contain at least one letter 'L'.

In Croatian, the vowels are the letters A, E, I, 0, and U only. All other letters are consonants.

### Input

The first and only line of input contains a string of characters, at most 100. The string contains only of uppercase English letters and '\_' characters. There will be at most 10 '\_' characters.

### **Output**

The first and only line of output should contain a single integer – the total number of pleasant words that can be formed by substituting underscores with uppercase letters of the English alphabet.

### Sample 1

Input	Output
L_V	5

# Sample 2

Input	Output
VK	10

## Sample 3

#### Listado 3: Backtracking Sep 29, 2025

Input	Output
JA_BU_K_A	485