

1. round, 24. october 2009.

Author: Filip Barl

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 then 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 vowels are letters **A, E, I, O, 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.

Warning: Use 64 bit number formats. *long long* in C/C++, *int64* in Pascal.

SAMPLE TESTS

input L_V	input V__K	input JA_BU_K_A
output 5	output 10	output 485