COCI '09 Contest 1 #3 Dobra

Time limit: 0.6s **Memory limit:** 32M

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 Specification

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 Specification

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 Input 1

```
L_V
```

Sample Output 1

```
5
```

Sample Input 2

```
V__K
```

Sample Output 2

```
10
```

Sample Input 3

```
JA_BU_K_A
```

Sample Output 3

```
485
```