
P0013. Words between dashes

P15714_en

Consider a sequence of words formed by letters. The words are separated with dashes, which can appear also at the beginning and in the end of the sequence. The sequence ends with a dot.

Your task is to write a program that prints the number of short words (less than five letters), medium (between five and nine letters), and long (more than nine letters).

Input

The input consists of a line with letters and dashes, finished with a dot.

Output

Your program must print a line with the number of short, medium and long words separated by commas.

Observation

Using `|strings|` is not allowed in this problem.

Sample input 1

.

Sample output 1

0, 0, 0

Sample input 2

-----abcde-.

Sample output 2

0, 1, 0

Sample input 3

aaabbbccc.

Sample output 3

0, 1, 0

Sample input 4

-----.

Sample output 4

0, 0, 0

Sample input 5

easy--to-solve-problem----.

Sample output 5

2, 2, 0

Sample input 6

-be-careful---repeated-dashes-and-final-word.

Sample output 6

3, 4, 0

Problem information

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