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	Sample output 2
`-----abcde-.`	`0,1,0`

Sample input 3	Sample output 3
`aaabbbccc.`	`0,1,0`

Sample input 4	Sample output 4
`----------------.`	`0,0,0`

Sample input 5	Sample output 5
`easy--to-solve-problem----.`	`2,2,0`

Sample input 6	Sample output 6
`-be-careful---repeated-dashes-and-final-word.`	`3,4,0`

Problem information

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