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## Happiness and Sadness (1)

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We define the happiness level of a text as the number of occurrences of subwords " :- ) " and " (- : ".

We define the sadness level of a text as the number of occurrences of subwords " :- ( " and " ) - : ".

Implement a program such that, given a sequence of characters from { ' - ' , ' : ' , ' ( ' , ' ) ' }, prints its level of happiness and sadness.

### Input

The input contains only one line with a sequence of characters from { ' - ' , ' : ' , ' ( ' , ' ) ' }.

### Output

The output has two numbers separated by a white space, the happiness and sadness levels of the input text.

#### Sample input 1

)-:--(--::((:-:)):::))-(((--)(:)):-(((

#### Sample output 1

4 5

#### Sample input 2

:-)::-(-:-)-::-(-:-)-::-:-(-:

#### Sample output 2

5 5

### Observation

Do not use `strings` nor any other massive data storage method. Read and treat the input character by character.

### Problem information

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