
Happiness and Sadness (1)

X64929_en

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

```
) - : -- ( -- : : ( ( : - : ) ) : : : ) ) - ( ( ( -- ) ( : ) ) : : - ( ( ( ( ( - 4 ( 5 ( -- ( - ( ( : - ) ) ) - : -- ( - : ( - : ) ) ( -- ( - ) - ( - ) : ) - : : : ) ) - : : ( ( - ( :
```

Sample output 1

```
5 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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