

## Parenthesis

## X85651\_en

Write a program that reads a sequence of lines, and for each line prints the number of *clean parenthesized regions* it contains.

A *clean parenthesized region* is a segment of the string that is immediately after an open parenthesis, is immediately followed by a closed parenthesis, and contains no open or closed parenthesis.

For instance the substring "heha" is a clean parenthesized region in the string: "hello (heha) he said" While in the string "hello (he(ha)) he said" the only clean parenthesized region corresponds to the substring "ha" since any larger parenthesized region contains other parenthesis.

### Input

The input is a sequence of strings, each in one line.

### Output

The output must contain, for each input line with at least one clean parenthesized region, the number of such regions in the line. Follow the format of the examples.

#### Sample input 1

```
hello (heha) he said.  
hello (he(ha)) he said.
```

#### Sample output 1

```
Line 1 contains 1 regions.  
Line 2 contains 1 regions.
```

#### Sample input 2

```
he (ooh (blabla (ky)) ... (sure?)) ((  
)))don't((  
))(in fact)(do))  
what about this one...
```

#### Sample output 2

```
Line 1 contains 2 regions.  
Line 3 contains 2 regions.
```

#### Sample input 3

```
hello (ha) (he) () uhm  
((()not cool())
```

#### Sample output 3

```
Line 1 contains 3 regions.  
Line 2 contains 2 regions.
```

#### Sample input 4

```
aaaaaaaa  
aaaaaaaaaa  
bf
```

#### Sample output 4

### Problem information

Author: ProAl professors

Generation: 2026-01-25T16:53:18.218Z

© Jutge.org, 2006–2026.

<https://jutge.org>