
Checking parentheses

P69643_en

Write a program that checks the correct parenthesization of several given words by using a stack of characters.

Input

Input consists of several non-empty words made up only of '(', ')', '[' and ']'.

Output

For every word, tell if it is correct or not, following the format of the example.

Sample input 1

```
() [] ()  
[()]  
[](  
(( ))  
(([]) [( )))
```

Sample output 1

```
() [] () is correct  
[()] is incorrect  
[] ( is incorrect  
(( )) is incorrect  
(([]) [( ))) is correct
```

Sample input 2

```
() [] (( )) [
```

Sample output 2

```
() is correct  
[] is correct  
(( )) is correct  
[ is incorrect
```

Problem information

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