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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