

## Parentheses

P35352\_en

Your task is to write a program that determines, for each given word, if it is correctly parenthesized or not. Here, a word is a non empty sequence of '(', ')', '[', and ']' without intermediate spaces.

For instance, these are some words correctly parenthesized:

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

And these are some words incorrectly parenthesized:

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

### Input

The input consists of a series of words of between 1 and 1000 characters, one per line.

### Output

For each given word, your program must print "correct" or "incorrect" as required.

### Scoring

- TestA:

30 Points

Some test cases will include words like the ones in the instance 1, that is, only with the characters '(', ')', '[', and ']'.

- TestB:

70 Points

Other test cases will include words with the characters '(', ')', '[', and ']'.

#### Sample input 1

```
()
(
() ()
((()))
) (
((()) ())
```

#### Sample output 1

```
correct
incorrect
correct
correct
incorrect
incorrect
```

#### Sample input 2

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

#### Sample output 2

```
correct
correct
correct
correct
incorrect
incorrect
```

**Problem information**

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