# Jutge.org

The Virtual Learning Environment for Computer Programming

#### **Parentheses**

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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:

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

• TestB:

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

#### Sample input 1

#### () ( () () ((())) ) ( (())()))

#### Sample input 2

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

#### Sample output 1

correct incorrect correct correct incorrect incorrect

### Sample output 2

correct correct correct correct incorrect incorrect

#### 30 Points

70 Points

## **Problem information**

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