Write a function that takes a string of parentheses, and determines if the order of the parentheses is valid. The function should return `true` if the string is valid, and `false` if it's invalid.

Examples

```
"()"              =>  true
")((()))"         =>  false
"("               =>  false
"(())((()()))"    =>  true
```

Constraints

`0 <= input.length <= 100`

Along with opening (`(`) and closing (`)`) parenthesis, input may contain any valid ASCII characters. Furthermore, the input string may be empty and/or not contain any parentheses at all. Do **not** treat other forms of brackets as parentheses (e.g. `[]`, `{}`, `<>`).