

You have a string `s` that consists of English letters, punctuation marks, whitespace characters, and brackets. It is guaranteed that the parentheses in `s` form a [regular bracket sequence](#). Your task is to reverse the strings contained in each pair of matching parentheses, starting from the innermost pair. The results string should not contain any parentheses.

## Example

For string `s = "a(bc)de"`, the output should be `reverseParentheses(s) = "acbde"`.

## Input/Output

- **[execution time limit] 0.5 seconds (cpp)**
- **[input] string `s`**

A string consisting of English letters, punctuation marks, whitespace characters and brackets. It is guaranteed that parentheses form a *regular bracket sequence*.

*Constraints:*

$5 \leq s.length \leq 55$ .

- **[output] string**