**[1021. Remove Outermost Parentheses](https://leetcode.com/problems/remove-outermost-parentheses/)**

A valid parentheses string is either empty "", "(" + A + ")", or A + B, where A and B are valid parentheses strings, and + represents string concatenation.

* For example, "", "()", "(())()", and "(()(()))" are all valid parentheses strings.

A valid parentheses string s is primitive if it is nonempty, and there does not exist a way to split it into s = A + B, with A and B nonempty valid parentheses strings.

Given a valid parentheses string s, consider its primitive decomposition: s = P1 + P2 + ... + Pk, where Pi are primitive valid parentheses strings.

Return s *after removing the outermost parentheses of every primitive string in the primitive decomposition of*s.

**Example 1:**

**Input:** s = "(()())(())"

**Output:** "()()()"

**Explanation:**

The input string is "(()())(())", with primitive decomposition "(()())" + "(())".

After removing outer parentheses of each part, this is "()()" + "()" = "()()()".

**Example 2:**

**Input:** s = "(()())(())(()(()))"

**Output:** "()()()()(())"

**Explanation:**

The input string is "(()())(())(()(()))", with primitive decomposition "(()())" + "(())" + "(()(()))".

After removing outer parentheses of each part, this is "()()" + "()" + "()(())" = "()()()()(())".

**Example 3:**

**Input:** s = "()()"

**Output:** ""

**Explanation:**

The input string is "()()", with primitive decomposition "()" + "()".

After removing outer parentheses of each part, this is "" + "" = "".

**Constraints:**

* 1 <= s.length <= 105
* s[i] is either '(' or ')'.
* s is a valid parentheses string.