**32. Longest Valid Parentheses**

Hard

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Given a string containing just the characters '(' and ')', find the length of the longest valid (well-formed) parentheses substring.

**Example 1:**

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

**Output:** 2

**Explanation:** The longest valid parentheses substring is "()".

**Example 2:**

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

**Output:** 4

**Explanation:** The longest valid parentheses substring is "()()".

**Example 3:**

**Input:** s = ""

**Output:** 0

**Constraints:**

* 0 <= s.length <= 3 \* 104
* s[i] is '(', or ')'.