Problem 32: Longest Valid Parentheses

Problem Information

Difficulty: Hard
Acceptance Rate: 37.43%
Paid Only: No
Tags: String, Dynamic Programming, Stack

Problem Description

Given a string containing just the characters `'('` and `')'`, return _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 `')'`.

Code Snippets

C++:

```
class Solution {
public:
int longestValidParentheses(string s) {


}
};
```

Java:

```
class Solution {
public int longestValidParentheses(String s) {


}
}
```

Python3:

```
class Solution:
def longestValidParentheses(self, s: str) -> int:
```