32. Longest Valid Parentheses ★

Question Editorial Solution

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Total Accepted: 74841 Total Submissions: 327669 Difficulty: Hard

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

For "(()", the longest valid parentheses substring is "()", which has length = 2.

Another example is ")()())", where the longest valid parentheses substring is "()()", which has length = 4.

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```
C++ • 3 4
```

```
class Solution {
1
2
   public:
3
       int longestValidParentheses(string s) {
4
          int max = 0, lpivot = -1, rpivot = s.size();
5
          std::stack<int> stack;
6
          for (int i = 0, n = s.size(); i < n; ++i) {
7
              if (s[i] == '(') {
                 stack.push(i);
8
9
              }
10
              else {
11
                 if (!stack.empty()) {
12
                     stack.pop();
13
                 }
                 else {
14
                     max = std::max(i - lpivot - 1, max);
15
                     lpivot = i;
16
17
                 }
              }
18
19
          }
          20
21
```

Custom Testcase

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