856. Score of Parentheses

Given a balanced parentheses string `s`, compute the score of the string based on the following rule:

- `()` has score 1
- `AB` has score `A + B`, where A and B are balanced parentheses strings.
- `(A)` has score `2 * A`, where A is a balanced parentheses string.

Example 1:

Input: s = "()"
Output: 1

Example 2:

Input: s = "(())"
Output: 2

Example 3:

Input: s = "()()"
Output: 2

Example 4:

Input: s = "(()(()))"
Output: 6

Note:

1. `s` is a balanced parentheses string, containing only `(` and `)`.
2. `2 <= s.length <= 5`

```
class Solution:
    def scoreOfParentheses(self, s: str) -> int:
        stack = []

        for i in range(len(s)):
            if s[i]=='(':
                stack.append('(')
            else:
                if stack[-1]=='(':
                    stack.pop()
                    stack.append(1)
                else:
                    temp = 0
                    while stack[-1]!='(':
                        temp = temp+stack.pop()
                    stack.pop()
                    stack.append(2*temp)
        if stack[0]=='(':
            return 2*stack[-1]
        else:
            return sum(stack)
```

```
class Solution:
    def scoreOfParentheses(self, s: str) -> int:
        ans = 0
        stack = []

        for i in range(len(s)):
            char = s[i]

            if char=='(':
                stack.append(char)
            else:
                if stack[-1]=='(':
                    stack.pop()
                    stack.append(1)
                else:
                    temp = 0
                    while stack[-1]!='(':
                        temp= temp+stack.pop()
                    stack.pop()
                    stack.append(2*temp)
        return sum(stack)
```