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:** "()"

**Output:** 1

**Example 2:**

**Input:** "(())"

**Output:** 2

**Example 3:**

**Input:** "()()"

**Output:** 2

**Example 4:**

**Input:** "(()(()))"

**Output:** 6

**Note:**

1. S is a balanced parentheses string, containing only ( and ).
2. 2 <= S.length <= 50