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△ Solution

A string is a valid parentheses string (denoted VPS) if it meets one of the following:

- It is an empty string "", or a single character not equal to "(" or ")",
- It can be written as AB (A concatenated with B), where A and B are **VPS**'s, or

□ Discuss (999+)

Submissions

• It can be written as (A), where A is a **VPS**.

We can similarly define the **nesting depth** depth(S) of any VPS S as follows:

• depth("") = 0

Description

- depth(C) = 0, where C is a string with a single character not equal to "(" or ")".
- depth(A + B) = max(depth(A), depth(B)), where A and B are VPS's.
- depth("(" + A + ")") = 1 + depth(A), where A is a VPS.

For example, "", "()()", and "()(()())" are **VPS**'s (with nesting depths 0, 1, and 2), and ")(" and "(()" are not VPS's.

Given a **VPS** represented as string s, return the **nesting depth** of s.

Example 1:

Input: s = "(1+(2*3)+((8)/4))+1"Output: 3

Explanation: Digit 8 is inside of 3 nested parentheses in the string.

Example 2:

Input: s = "(1)+((2))+(((3)))"Output: 3

Constraints:

- 1 <= s.length <= 100
- s consists of digits 0-9 and characters '+', '-', '*', '/', '(', and ')'.
- It is guaranteed that parentheses expression s is a **VPS**.

≡ Problems

✗ Pick One

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Next >

Console 🔺

i Java *i* {} 5 ⊕ □ Autocomplete class Solution { 1 2 public int maxDepth(String s) { 3 4 int length = s.length(); 5 int maximum = Integer.MIN_VALUE; 6 7 if(length == 1) 8 return 0; 9 10 Stack<Character> stack = new Stack<>(); 11 char[] charArray = s.toCharArray(); 12 13 ▼ for(int i = 0; i < length; i++){ if(charArray[i] == '('){ 14 stack.push('('); 15 maximum = Math.max(maximum, stack.size()); 16 17 }else if(charArray[i] == ')') 18 stack.pop(); 19 } 20 21 return maximum == Integer.MIN VALUE ? 0 : maximum; 22 23 .}. Testcase Run Code Result Debugger 🔓 Accepted Runtime: 0 ms "(1+(2*3)+((8)/4))+1" Your input 3 Diff Output 3 Expected