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Difficulty:

0

0

0

0

Easy

# 5535. Maximum Nesting Depth of the Parentheses

My Submissions (/contest/weekly-contest-210/problems/maximum-nesting-depth-of-the-parentheses/submissions/)

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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
- 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
- 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
```

## Example 3:

```
Input: s = "1+(2*3)/(2-1)"
Output: 1
```

### Example 4:

```
Input: s = "1"
Output: 0
```

## Constraints:

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

```
C
                                                                                                                  क
JavaScript
1 • /**
     * @param {string} s
2
     * @return {number}
3
 4
 5 \vee const maxDepth = (s) => {
 6
        let current_max = 0;
        let max = 0;
 7
8
        let n = s.length;
9 ▼
        for (let i = 0; i < n; i++) {
10 •
            if (s[i] == '(') {
                 current_max++;
```

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