# 1614. Maximum Nesting Depth of the Parentheses

# Description

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(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**.