


1614. Maximum Nesting Depth of the Parentheses

Solved 

Easy

 Topics

 Companies

 Hint

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

```
class Solution {
    func maxDepth(_ s: String) -> Int {
        var countOfOpen = 0
        var ans = 0

        for i in s {
            if(i == "("){
                countOfOpen = countOfOpen + 1
                ans = max(ans, countOfOpen)
            }

            if(i == ")"){
                countOfOpen = countOfOpen - 1
            }
        }

        return ans
    }
}
```