Problem # 1614: Maximum Nesting Depth of the Parentheses

<https://leetcode.com/problems/maximum-nesting-depth-of-the-parentheses/>

My Solution:

<https://leetcode.com/problems/maximum-nesting-depth-of-the-parentheses/discuss/906689/Simple-Python-3-Solution-Runtime-beats-95.02>

Simple Python 3 Solution -- Runtime beats 95.02%

We are given that it is a balanced VPS. So we need not have a stack and check if the stack is empty in the end. We just need to track the nesting depth of parentheses.

1. Initialize depth and max\_depth to 0.
2. Iterate through the string s character by character.
3. If the character is a left parenthesis, then increment depth by 1 and max\_depth will be the maximum of depth and max\_depth.
4. If the character is a right parenthesis, then decrement depth by 1.
5. Return max\_depth.

class Solution:

def maxDepth(self, s: str) -> int:

depth = 0

max\_depth = 0

for char in s:

if char == '(':

depth += 1

max\_depth = max(max\_depth, depth)

elif char == ')':

depth -= 1

return(max\_depth)