163bpks0s

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0.0.1 Parth Gajare 15 Stacks

```
[]: stack = list ()
     # Append Operation
     stack.append ('a')
     stack.append ('b')
     stack.append ('c')
     print ('Initial Stack')
     print (stack)
    Initial Stack
    ['a', 'b', 'c']
[]: # Pop Operation
     print (stack.pop ())
     print (stack.pop ())
     print (stack.pop ())
     print (stack)
    С
    b
    []: '''
     Given a valid parentheses string stringInput, return the nesting depth of \Box
      \hookrightarrow stringInput.
     The nesting depth is the maximum number of nested parentheses.
     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)))"
```

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Output: 3
     Explanation:
     Digit 3 is inside of 3 nested parentheses in the string.
     Example 3:
     Input: s = "()(())((()()))"
     Output: 3
     111
[]: class StackDepth:
         def maximumDepth(self, stringInput: str) -> int:
             max_depth = 0
             current_depth = 0
             for char in stringInput:
                 if char == "(":
                     current_depth += 1
                     max_depth = max(max_depth, current_depth)
                 elif char == ")":
```

Enter a valid parentheses string: (1+(2*3)+((8)/4))+1
Output: 3

stringInput = input("Enter a valid parentheses string: ")

print(f"Output: {stack_depth_solver.maximumDepth(stringInput)}")

current_depth -= 1

return max_depth

stack_depth_solver = StackDepth()

[]: