

## YASH KASARE 24 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)
```

```
↗ c
b
a
[]
```

```
'''
```

Given a valid parentheses string stringInput, return the nesting depth of 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)))"

Output: 3

Explanation:

Digit 3 is inside of 3 nested parentheses in the string.

Example 3:

Input: s = "()(())(()(()))"

Output: 3

```
'''
```

```
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 == ")":
```

```
                current_depth -= 1
```

```
        return max_depth
```

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

```
stack_depth_solver = StackDepth()
```

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

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

Start coding or [generate](#) with AI.

