

Python DSA Day-42

Leetcode 451 Sort Characters by Frequency

<https://leetcode.com/problems/sort-characters-by-frequency/>

```
from collections import Counter
class Solution:
    def frequencySort(self, s: str) -> str:
        freq= Counter(s)
        max_freq= max(freq.values())
        buckets=[[ ] for _ in range(max_freq + 1)]
        for char, count in freq.items():
            buckets[count].append(char)
        result=[ ]
        for count in range(max_freq,0,-1):
            for char in buckets[count]:
                result.append(char * count)
        return "".join(result)
```

TC – O(n)

SC- O(n)

Leetcode 1614 Maximum Nesting Depth of Parenthesis

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

```
class Solution:
    def maxDepth(self, s: str) -> int:
        depth=0
        max_depth=0
        for ch in s:
            if ch=="(":
                depth +=1
                max_depth= max(max_depth,depth)
            elif ch==')':
                depth -=1
        return max_depth
```

TC- O(n)

SC-O(1)

