https://leetcode.com/notes/

# 5. Longest Palindromic Substring

```
# Find better approach
class Solution:
    def longestPalindrome(self, s: str) -> str:
        total = 0
        c= 0
        ans = ""
        for i in range(len(s)):
            for j in range(i+1,len(s)+1):
                if total < j-i and s[i:j] == s[i:j][::-1]:
                      ans = s[i:j]
                     total = j-i
        return ans</pre>
```

### 8. String to Integer (atoi) 2

```
# find optimized version
class Solution:
    def myAtoi(self, s: str) -> int:
        res = 1
        i = 0
        if not s: return 0
        while i < len(s) and s[i] == " ":
            i+=1
        if i < len(s):</pre>
            if s[i] == "+":
                i+=1
            elif s[i] == "-":
                res = -1
                i+=1
        while i < len(s) and s[i] == "0":
            i+=1
        temp = ""
        while i < len(s):
            if not ("0" <= s[i] <= "9"):
                break
            temp += s[i]
            i+=1
        if temp:
            res *= int(temp)
        else:
            return 0
        if res in range(-2**31,2**31-1+1):
            return res
        elif res < -2**31:
            return -2**31
        else:
            return 2**31-1
        return 0
```

## 13. Roman to Integer 🗗

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```
class Solution:
    def romanToInt(self, s: str) -> int:
        hashmap = {
            "T"
                              1,
"V"
                  :5,
"X"
                 :10,
"L"
               :50,
"C"
                 :100,
"D"
                 :500,
"M"
                 :1000,
        total = 0
        for i in range(len(s)):
            cur = hashmap.get(s[i])
            if i != len(s)-1 and cur < hashmap.get(s[i+1]) :</pre>
                 total -= cur
            else:
                 total += cur
        return total
```

#### 14. Longest Common Prefix <sup>☑</sup>

#### 151. Reverse Words in a String ...

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```
class Solution:
    def reverseWords(self, s: str) -> str:
        result = []
        temp = ""
        n =len(s)-1
        for i in range(len(s)):
            if s[i]!=" ":
                temp += s[i]
        elif s[i] == " " and temp !="":
               result.append(temp)
                temp=""
        if i == n and temp != "":
                result.append(temp)
        return " ".join(result[::-1])
```

# 205. Isomorphic Strings 2

# 242. Valid Anagram

```
from collections import Counter

class Solution:
    def isAnagram(self, s: str, t: str) -> bool:
        cnt_s = Counter(s)
        cnt_t = Counter(t)
        if len(s) != len(t):
            return False
        for key,val in cnt_s.items():
            if cnt_s.get(key) != cnt_t.get(key):
                 return True
```

# 451. Sort Characters By Frequency <sup>☑</sup>

```
# Use heap for better time complexity
from collections import Counter
class Solution:
    def frequencySort(self, s: str) -> str:
        cnt_s = Counter(s)
        res = ""
        for key,val in sorted(cnt_s.items(),key = lambda x:x[1],reverse = True):
            res+= key*val
        return res
```

# 796. Rotate String 🗗

```
class Solution:
    def rotateString(self, s: str, goal: str) -> bool:
        if len(s) != len(goal):return False
        for i in range(len(goal)):
            if goal == s[i:]+s[:i]:
                return True
        return False
```

#### 1021. Remove Outermost Parentheses

## 1539. Kth Missing Positive Number

# 1614. Maximum Nesting Depth of the Parentheses

#### 1781. Sum of Beauty of All Substrings 🗗

```
class Solution:
    def beautySum(self, s: str) -> int:
        beutysum = 0
        n = len(s)

    for i in range(n):
        freq = defaultdict(int)
        for j in range(i,n):
            freq[s[j]]+=1
            max_freq = max(freq.values())
            min_freq = min(freq.values())
            beutysum+=(max_freq-min_freq)
    return beutysum
```

### 1903. Largest Odd Number in String

```
import sys
sys.set_int_max_str_digits(55555555)
class Solution:
    def largestOddNumber(self, nums: str) -> str:
        ans = ""
    lenn = 0
    for i in range(len(nums)-1,-1,-1):
        if int(nums[i]) % 2 == 1:
            return nums[:i+1]
    return ans
```

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