

Check the valid parenthesis

```
def isValid(self, s: str) -> bool:
    stack = []
    hash = {')': '(', ']': '[', '}': '{'}

    for char in s:
        if char in hash:
            if stack and stack[-1] == hash[char]:
                stack.pop()
            else:
                return False
        else:
            stack.append(char)
    return not stack
```

Remove duplicate

```
def removeDuplicates(self, nums: List[int]) -> int:
    j = 1
    for i in range(1, len(nums)):
        if nums[i] != nums[i - 1]:
            nums[j] = nums[i]
            j += 1
    return j
```

Remove element

```
def removeElement(self, nums: List[int], val: int) -> int:
    index=0
    for i in range(len(nums)):
        if nums[i]!=val:
            nums[index]=nums[i]
            index+=1
    return index
```

```
def climbStairs(self, n: int) -> int:
    if n == 0 or n == 1:
        return 1
    prev, curr = 1, 1
    for i in range(2, n+1):
        temp = curr
        curr = prev + curr
        prev = temp
    return curr
```

```
def isAnagram(self, s: str, t: str) -> bool:

    sorted_s = sorted(s)
    sorted_t = sorted(t)
    return sorted_s == sorted_t
```