```
1. Two Sum
class Solution:
  def twoSum(self, nums: List[int], target: int) -> List[int]:
    memo = \{\}
    for i, num in enumerate(nums):
       dif = target - num
       if dif in memo:
         return [memo[dif], i]
       else:
         memo[num] = i
53. Maximum Subarray
class Solution:
  def maxSubArray(self, nums: List[int]) -> int:
    result = 0
    max res = -float('inf')
    for num in nums:
       result = max(result + num, num)
       max res = max(result, max res)
    return max res
21. Merge Two Sorted Lists
class Solution:
  def mergeTwoLists(self, I1: ListNode, I2: ListNode) -> ListNode:
    dummy head = ListNode(0)
    dummy head memo = dummy head
    while I1 and I2:
       if I1.val < I2.val:
         dummy head.next = I1
         I1 = I1.next
       else:
         dummy head.next = I2
         12 = 12.next
       dummy head = dummy head.next
    if 11:
       dummy head.next = I1
    elif I2:
       dummy head.next = I2
    return dummy head memo.next
```

```
class Solution(object):
  def isValid(self, s):
     :type s: str
     :rtype: bool
     table = {'(': ')', '{': '}', '[': ']'}
     length = len(s)
     stack = []
     for i in range(length):
        if s[i] in '({[':
           stack.append(s[i])
        else:
           if not stack or table[stack.pop()] != s[i]:
              return False
     return len(stack) == 0
937. Reorder Data in Log Files
class Solution:
  def reorderLogFiles(self, logs: List[str]) -> List[str]:
     letters = []
     digits = []
     digits_map = '1234567890'
     for log in logs:
        if log.split(' ')[1][0] in digits_map:
           digits.append(log)
        else:
           letters.append(log)
     letters.sort(key=lambda a: (a[a.index(' ') + 1:], a))
     return letters + digits
```