**2. ADD TWO NUMBERS**

# Definition for singly-linked list.

# class ListNode:

# def \_\_init\_\_(self, val=0, next=None):

# self.val = val

# self.next = next

class Solution:

def addTwoNumbers(self, l1: ListNode, l2: ListNode) -> ListNode:

dummy = ListNode()

cur = dummy

carry = 0

while l1 or l2 or carry:

sum = carry

if l1:

sum += l1.val

l1 = l1.next

if l2:

sum += l2.val

l2 = l2.next

carry = sum // 10

cur.next = ListNode(sum % 10)

cur = cur.next

return dummy.next