class Solution:

    def addTwoNumbers(

        self, l1: Optional[ListNode], l2: Optional[ListNode]

    ) -> Optional[ListNode]:

        dummyHead = ListNode(0)

        curr = dummyHead

        carry = 0

        while l1 != None or l2 != None or carry != 0:

            l1Val = l1.val if l1 else 0

            l2Val = l2.val if l2 else 0

            columnSum = l1Val + l2Val + carry

            carry = columnSum // 10

            newNode = ListNode(columnSum % 10)

            curr.next = newNode

            curr = newNode

            l1 = l1.next if l1 else None

            l2 = l2.next if l2 else None

        return dummyHead.next