

0021 - Merge Two Sorted Lists



LinkedList LinkedList



Timeout Code:

```
# Definition for singly-linked list.
class ListNode(object):
    def __init__(self, val=0, next=None):
        self.val = val
        self.next = next

class Solution(object):
    def mergeTwoLists(self, list1, list2):
        """
        :type list1: Optional[ListNode]
        :type list2: Optional[ListNode]
        :rtype: Optional[ListNode]
        """

        head = ListNode()
        current = head

        while list1 != None and list2 != None:
            if list1.val <= list2.val:
                current.next = list1
```

```

        temp = list1.next
        current = list1
        list1 = temp
    else:
        current.next = list2
        temp = list2.next
        current = list2
        list2 = temp

    if list1 != None:
        current.next = list1
    if list2 != None:
        current.next = list2

    return head.next

```

ListNode(ListNode)

- list1 list2 list next list1
- list1 list1 list1.next
- list next list2 list2 list2.next
- list1 list2 None (null)
- list1 list2 LinkedList Node None (null) ListNode

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