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정렬되어 있는 두 연결 리스트를 합쳐라.
Input: 11 = [1,2,4], 12 = [1,3,4]
Output: [1,1,2,3,4,4]
# Definition for singly-linked list.
# class ListNode:
    def __init__(self, val=0, next=None):
#
       self.val = val
#
       self.next = next
1.브루트 포스
class Solution:
  def mergeTwoLists(self, I1: ListNode, I2: ListNode) -> ListNode:
     result = None
     while I1 or I2:
       if not I1:
          result = ListNode(val = I2.val, next = result)
          12 = 12.next
       elif not I2:
          result = ListNode(val = I1.val, next = result)
          I1 = I1.next
       elif | 1.val == | 2.va|:
          result = ListNode(val = I1.val, next = result)
          result = ListNode(val = I2.val, next = result)
          I1 = I1.next
          12 = 12.next
       elif |1.va| < |2.va|:
          result = ListNode(val = I1.val, next = result)
          I1 = I1.next
       elif |1.va| > |2.va|:
          result = ListNode(val = I2.val, next = result)
          12 = 12.next
     rresult = None
     while result:
          rresult = ListNode(val = result.val, next = rresult)
          result = result.next
     return rresult
2. 재귀 호출
class Solution:
  def mergeTwoLists(self, I1: ListNode, I2: ListNode) -> ListNode:
     if (not 11) or (12 and 11.val > 12.val):
       11, 12 = 12, 11
     if 11:
       I1.next = self.mergeTwoLists(I1.next, I2)
     return 11
         ▶ I1, I2를 비교하여 작은것을 I1에 있게함,
         ▶ I1.next를 I2와 다시비교한다.
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