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Java

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21. Merge Two Sorted Lists

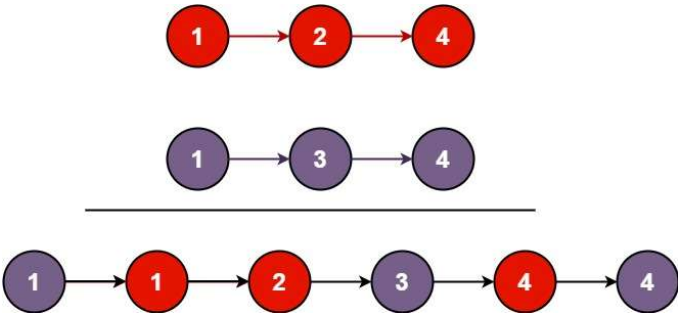
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You are given the heads of two sorted linked lists `list1` and `list2`.

Merge the two lists in a one **sorted** list. The list should be made by splicing together the nodes of the first two lists.

Return *the head of the merged linked list*.

Example 1:



```
graph LR
    subgraph List1 [list1]
        direction LR
        n1_1((1)) --> n1_2((2))
        n1_2 --> n1_4((4))
    end
    subgraph List2 [list2]
        direction LR
        n2_1((1)) --> n2_3((3))
        n2_3 --> n2_4((4))
    end
    subgraph Merged [Merged List]
        direction LR
        m1((1)) --> m2((1))
        m2 --> m3((2))
        m3 --> m4((3))
        m4 --> m5((4))
        m5 --> m6((4))
    end
```

Input: list1 = [1,2,4], list2 = [1,3,4]
Output: [1,1,2,3,4,4]

Example 2:

Input: list1 = [], list2 = []
Output: []

Example 3:

Input: list1 = [], list2 = [0]
Output: [0]

Constraints:

- The number of nodes in both lists is in the range `[0, 50]`.
- `-100 <= Node.val <= 100`
- Both `list1` and `list2` are sorted in **non-decreasing** order.

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```
/**
 * Definition for singly-linked list.
 */
public class ListNode {
    int val;
    ListNode next;
    ListNode() {}
    ListNode(int val) { this.val = val; }
    ListNode(int val, ListNode next) { this.val = val; this.next =
next; }
}
class Solution {
    public ListNode mergeTwoLists(ListNode list1, ListNode list2) {
    }
}
```

Problems

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Console

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Run Code ^

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https://leetcode.com/problems/merge-two-sorted-lists/

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