

Question #19

Merge Two Sorted Lists

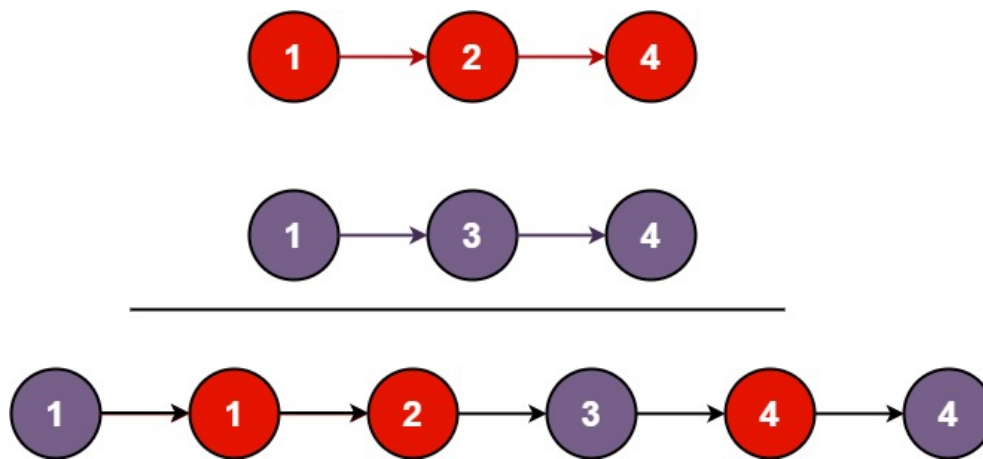
Difficulty : Easy Category :Linked Lists

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:



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.

Good luck!

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