

## 21. Merge Two Sorted Lists

Easy

Topics

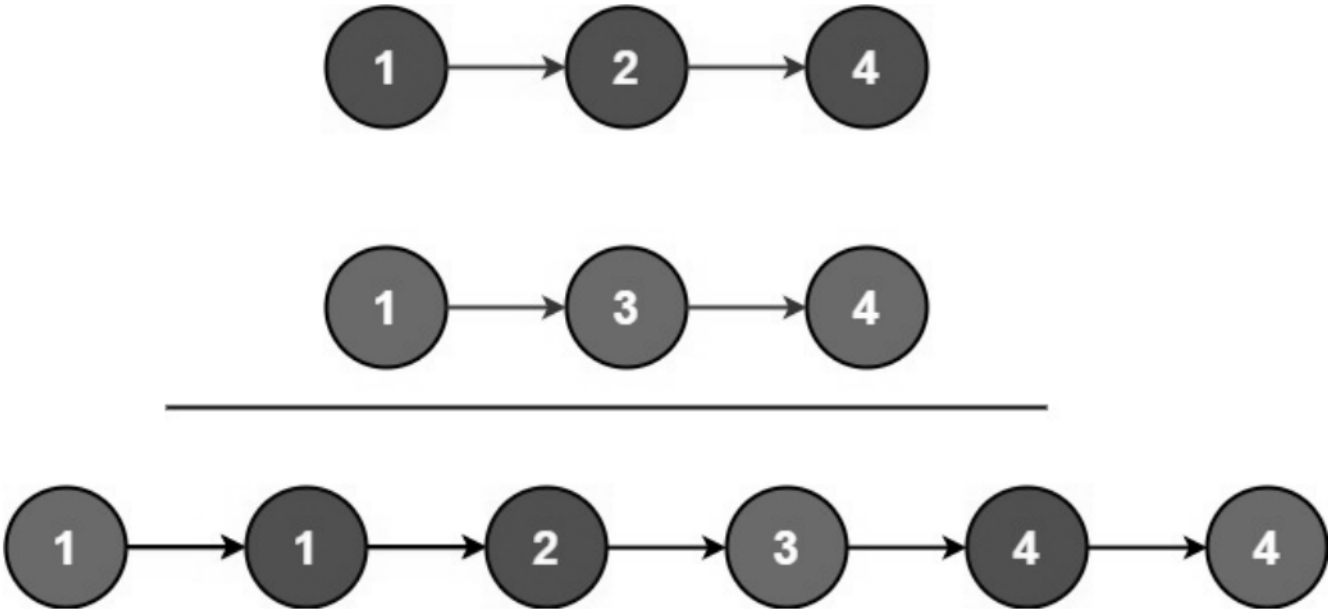
Companies

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

Merge the two lists into 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.

Seen this question in a real interview before? 1/5

Yes

No

Accepted **5,444,703**/8.1M | Acceptance Rate **67.1** %

Topics

Companies

23.7K

495