

## Code

C

```
8 struct ListNode* mergeTwoLists(struct ListNode* list1, struct ListNode* list2) {
9     if (list1 == NULL) return list2;
10    if (list2 == NULL) return list1;
11    struct ListNode* head = NULL;
12    struct ListNode* tail = NULL;
13    if (list1->val < list2->val) {
14        head = tail = list1;
15        list1 = list1->next;
16    } else {
17        head = tail = list2;
18        list2 = list2->next;
19    }
20    while (list1 != NULL && list2 != NULL) {
21        if (list1->val < list2->val) {
22            tail->next = list1;
23            list1 = list1->next;
24        } else {
25            tail->next = list2;
26            list2 = list2->next;
27        }
28        tail = tail->next;
29        if (list1 != NULL)
30            tail->next = list1;
31        else
32            tail->next = list2;
33    }
34    return head;
35 }
```

Testcase  Test Result

Accepted Runtime: 0 ms

Case 1

Case 2

Case 3

Input

```
list1 =
[1,2,4]
```

```
list2 =
[1,3,4]
```

Output

```
[1,1,2,3,4,4]
```

Expected

```
[1,1,2,3,4,4]
```

 Contribute a testcase