

## 21. Merge Two Sorted Lists

```
class Solution {  
public:  
    ListNode* mergeTwoLists(ListNode* list1, ListNode* list2) {  
        ListNode dummy(0);  
        ListNode* curr = &dummy;  
  
        while (list1 && list2) {  
            if (list1->val < list2->val) {  
                curr->next = list1;  
                list1 = list1->next;  
            } else {  
                curr->next = list2;  
                list2 = list2->next;  
            }  
            curr = curr->next;  
        }  
  
        curr->next = list1 ? list1 : list2;  
  
        return dummy.next;  
    }  
};
```

← → ↺ 🏠 leetcode.com/problems/merge-two-sorted-lists/ 🔍 ☆ ⓘ 📄 📁 ⬇️ Ⓐ ⋮

🏠 Problem List < > 🔍

Run Submit 🔄 📄

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Description Accepted × Editorial Solutions Submissions

← All Submissions

Accepted 208 / 208 testcases passed

ashima\_narula submitted at Feb 13, 2025 21:58

Editorial Solution

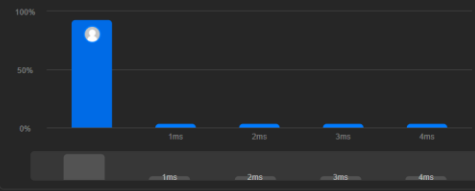
Runtime

0 ms | Beats: 100.00%

Memory

19.32 MB | Beats: 86.77%

Analyze Complexity



Code C++

```
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     ListNode *next;
 *     ListNode() : val(0), next(nullptr) {}
 *     ListNode(int x) : val(x), next(nullptr) {}
 *     ListNode(int x, ListNode *next) : val(x), next(next) {}
 * };
 */
```

View more

More challenges

Code

C++ Auto

```
21         } else {
22             curr->next = list2;
23             list2 = list2->next;
24         }
25         curr = curr->next;
26     }
27
28     curr->next = list1 ? list1 : list2;
29
30     return dummy->next;
31 }
32
```

Saved Ln 32, Col 3

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