

Description

Solution

Discuss (999+)

Submissions

C++

Autocomplete

21. Merge Two Sorted Lists

Easy 4939 627 Add to List Share

Merge two sorted linked lists and return it as a new **sorted** list. The new list should be made by splicing together the nodes of the first two lists.

Example:

Input: 1->2->4, 1->3->4

Output: 1->1->2->3->4->4

Accepted 1,115,210 Submissions 2,059,320

Seen this question in a real interview before? Yes No

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Related Topics

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```
1  /**
2   * Definition for singly-linked list.
3   * struct ListNode {
4   *     int val;
5   *     ListNode *next;
6   *     ListNode() : val(0), next(nullptr) {}
7   *     ListNode(int x) : val(x), next(nullptr) {}
8   *     ListNode(int x, ListNode *next) : val(x), next(next) {}
9   * };
10  */
11  class Solution {
12  public:
13      ListNode* mergeTwoLists(ListNode* l1, ListNode* l2) {
14          ListNode* head=NULL;
15          ListNode* temp=NULL;
16          if(!l1&&!l2)
17              return NULL;
18          else if(!l1 || !l2){
19              if(!l1)
20                  return l2;
21              else
22                  return l1;
23          }
24          if(l1->val<l2->val){
25              head=new ListNode(l1->val);
26              l1=l1->next;
27              temp=head;
28          }
29          else{
30              head=new ListNode(l2->val);
31              l2=l2->next;
32              temp=head;
33          }
34          while(l1 && l2){
35              if(l1->val<l2->val){
36                  temp->next=new ListNode(l1->val);
37                  l1=l1->next;
38                  temp=temp->next;
39              }
40              else{
41
42                  temp->next=new ListNode(l2->val);
43                  l2=l2->next;
44                  temp=temp->next;
45              }
46          }
47          if(l1){
48              temp->next=l1;
49          }
50          if(l2){
51              temp->next=l2;
52          }
53          return head;
54      }
55  };
```