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|  Marwadi University | Marwadi University Faculty of Technology Department of Information and Communication Technology | |
| Sem : 4 | Name : VEDANT BHARAD | |
| Day : 97 | Date : 22/1/2023 | Enrollment No: 92100133023 |

CP Club 365 Days Challenge

Programming language – C++

Problem Statement


<https://leetcode.com/problems/merge-two-sorted-lists/>

Git :- <https://github.com/Vedantbharad2603/CP club 365 Days>

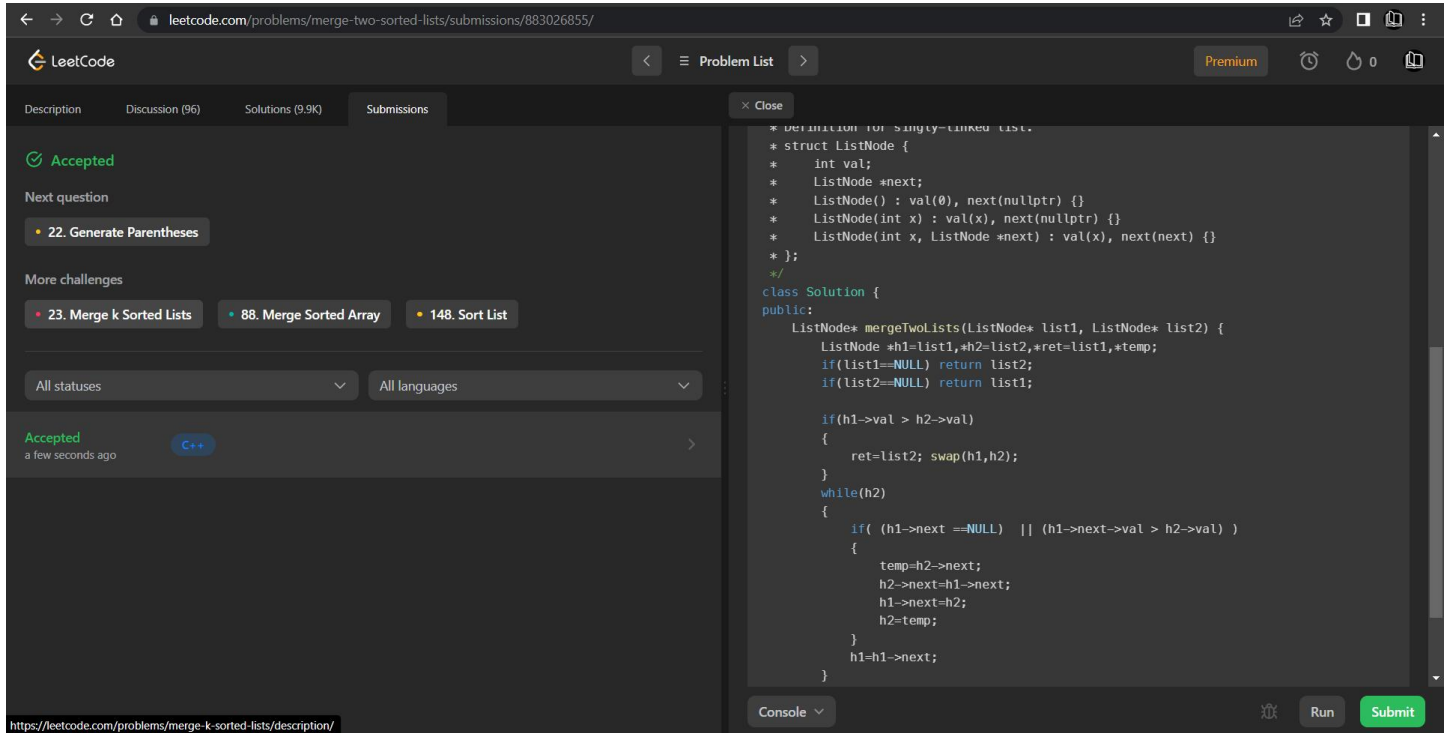
Your Code:

```
// 0x97Day of 0x365Days challenge
// VEDANT BHARAD
// 22-1-2023
class Solution {
public:
    ListNode* mergeTwoLists(ListNode* list1, ListNode* list2) {
        ListNode *h1=list1,*h2=list2,*ret=list1,*temp;
        if(list1==NULL) return list2;
        if(list2==NULL) return list1;

        if(h1->val > h2->val)
        {
            ret=list2; swap(h1,h2);
        }
        while(h2)
        {
            if( (h1->next ==NULL) || (h1->next->val > h2->val) )
            {
                temp=h2->next;
                h2->next=h1->next;
                h1->next=h2;
                h2=temp;
            }
            h1=h1->next;
        }
        return ret;
    }
};
```

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Output (Screen Shot):



```

* 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) {}
* };
*/
class Solution {
public:
    ListNode* mergeTwoLists(ListNode* list1, ListNode* list2) {
        ListNode *h1=list1,*h2=list2,*ret=list1,*temp;
        if(list1==NULL) return list2;
        if(list2==NULL) return list1;

        if(h1->val > h2->val)
        {
            ret=list2; swap(h1,h2);
        }
        while(h2)
        {
            if( (h1->next ==NULL) || (h1->next->val > h2->val) )
            {
                temp=h2->next;
                h2->next=h1->next;
                h1->next=h2;
                h2=temp;
            }
            h1=h1->next;
        }
    }
}

```

Understanding about problem:

- In this task I need to Merge Two Sorted Lists and then return that list head.
- Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.**

ALL THE BEST
Team CP Club