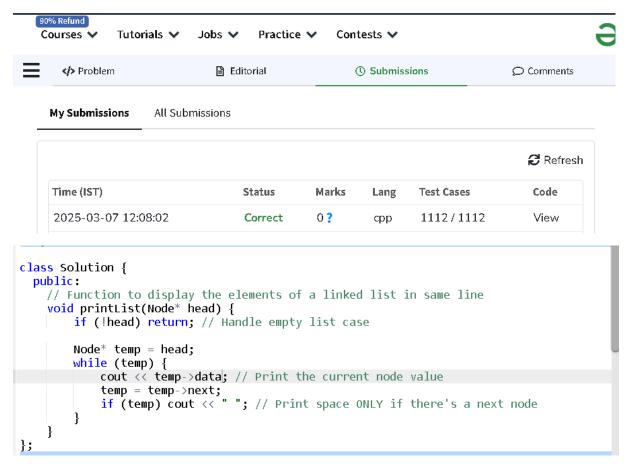
# **ASSIGNMENT - 3**

Student Name: Manreet Kaur UID: 22BCS15550

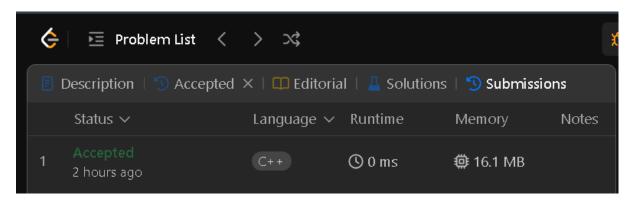
Branch: BE-CSE Section/Group: 608/B

Semester: 6<sup>th</sup> Subject Name: AP LAB

## 1.Print Linked List:



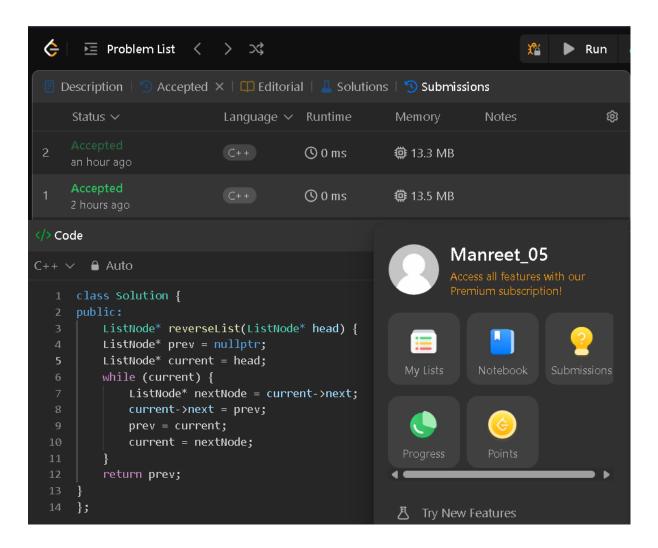
2.Remove duplicates from a sorted list:



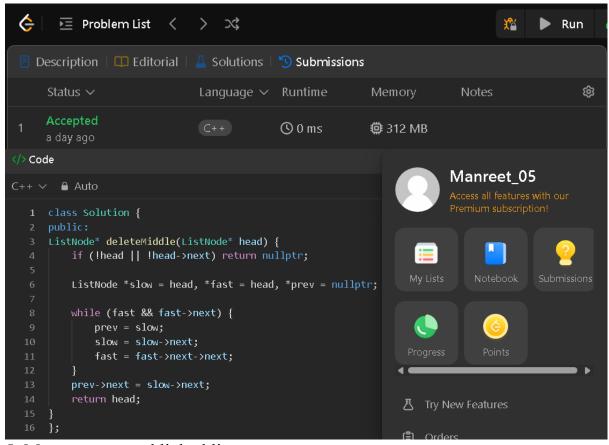
```
O 0
  Run
           Submit
                         \Box 
                                                                        88
                                                                             (3)
</>Code
                                                                  Manreet_05
       Auto
     class Solution {
          ListNode* deleteDuplicates(ListNode* head) {
          ListNode* current = head;
         while (current && current->next) {
             if (current->val == current->next->val) {
                 current->next = current->next->next;
             } else {
                 current = current->next;
          return head;

➡ Try New Features
```

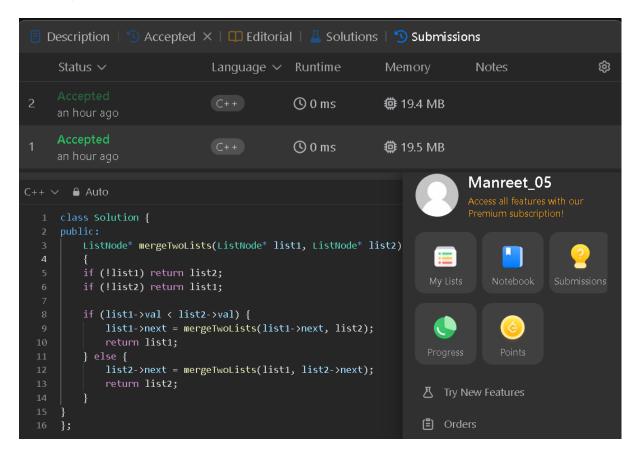
#### 3. Reverse a linked list:



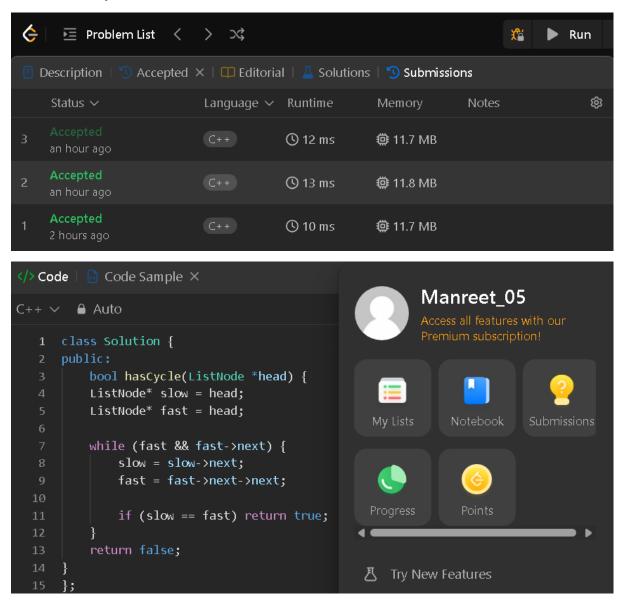
4. Delete middle node of a list:



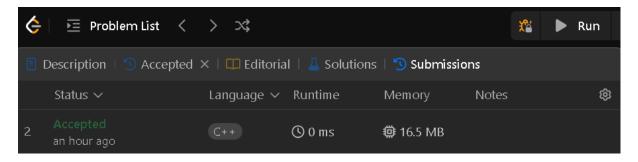
5. Merge two sorted linked lists:



# 6. Detect a cycle in a linked list:



## 7.Rotate a list:

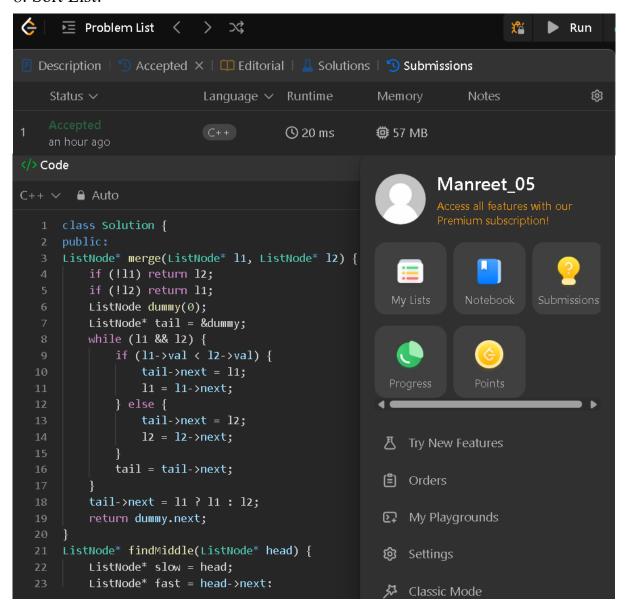


```
Code
                                                                      Manreet_05
     ■ Auto
                                                                      Access all features with our
        ListNode* rotateRight(ListNode* head, int k) {
        if (!head || !head->next || k == 0) return head;
        ListNode* temp = head;
        int length = 1;
       while (temp->next) {
            temp = temp->next;
            length++;
        temp->next = head;
        k = k % length;
        if (k == 0) {

⚠ Try New Features

            temp->next = nullptr;
            return head;
                                                              (E) Orders
```

#### 8. Sort List:



## 9. Merge k sorted lists:

