

# **Assignment-3**

Name – Vedant Aggarwal Semester - 6 Subject - Advanced Programming Lab-2 UID – 22BCS13945 Date - 06-03-2025

Subject Code - 22CSP-351

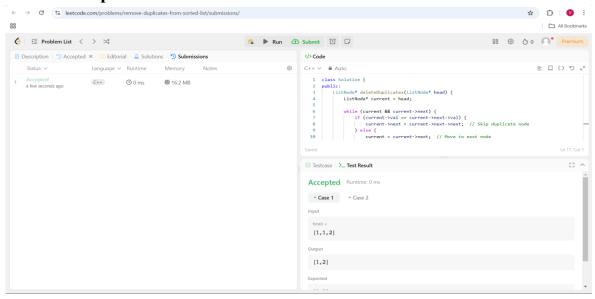
### • Linked Lists:

### 1. Print Linked List-

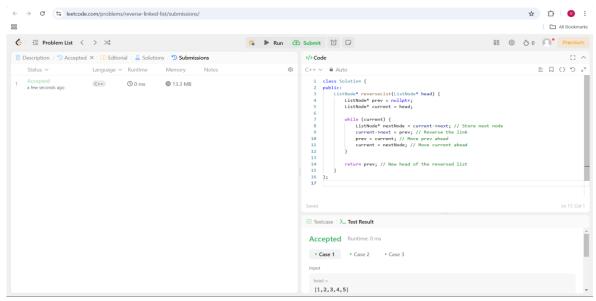
```
class Solution {
public:
    void printList(Node *head) {
        Node* temp = head;
        while (temp != nullptr) {
            cout << temp->data;
            if (temp->next != nullptr) cout << " "; // Print
space only if not the last node
            temp = temp->next; // Move to the next node
(Fix for infinite loop)
        }
        cout << endl; // Print newline for correct
formatting
    }
};</pre>
```



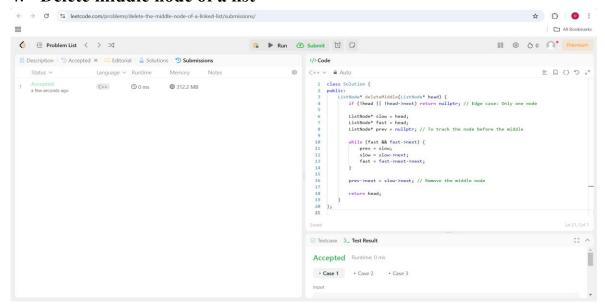
2. Remove duplicates from a sorted list-



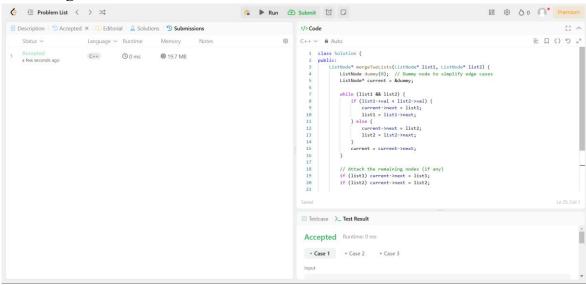
3. Reverse a linked list-



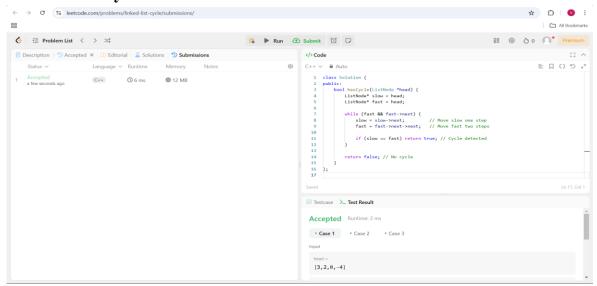
4. Delete middle node of a list-



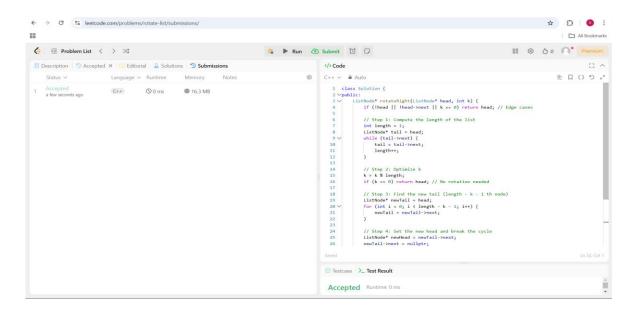
5. Merge two sorted linked lists-



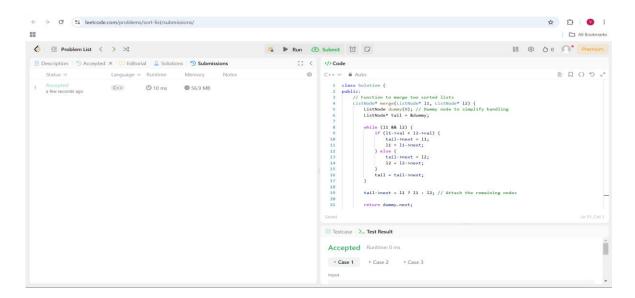
6. Detect a cycle in a linked list-



## 7. Rotate a list-



### 8. Sort List-



9. Merge k sorted lists-

