DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

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Department of Computer Science & Engineering

Subject Name:

Subject Code: 20CSP351

Submitted to:

Er. Vipasha Sharma

Submitted by:

Name: Kanishk Soni

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Section: 20BCS_DM_708

Group: B

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Experiment-1.1

Student Name: Kanishk Soni
UID: 20BCS9398
Branch: BE-CSE
Section/Group:20BCS-DM_708B
Semester: 6th
Date of Performance: 23-02-2023
Subject Name: Competitive Coding-II
Subject Code: 20CSP-351

AIM: To implement the concept of Arrays, Queues, Stack and Linked List

Problem1: Implement Jump Game
https://leetcode.com/problems/jump-game-ii/

Program Code:

```
class Solution {
    public int jump(int[] A) {
        int jumps = 0, curEnd = 0, curFarthest = 0;
        for (int i = 0; i < A.length - 1; i++) {
            curFarthest = Math.max(curFarthest, i + A[i]);
            if (i == curEnd) {
                jumps++;
                curEnd = curFarthest;
            }
        }
        return jumps;
    }
}
```

Output:

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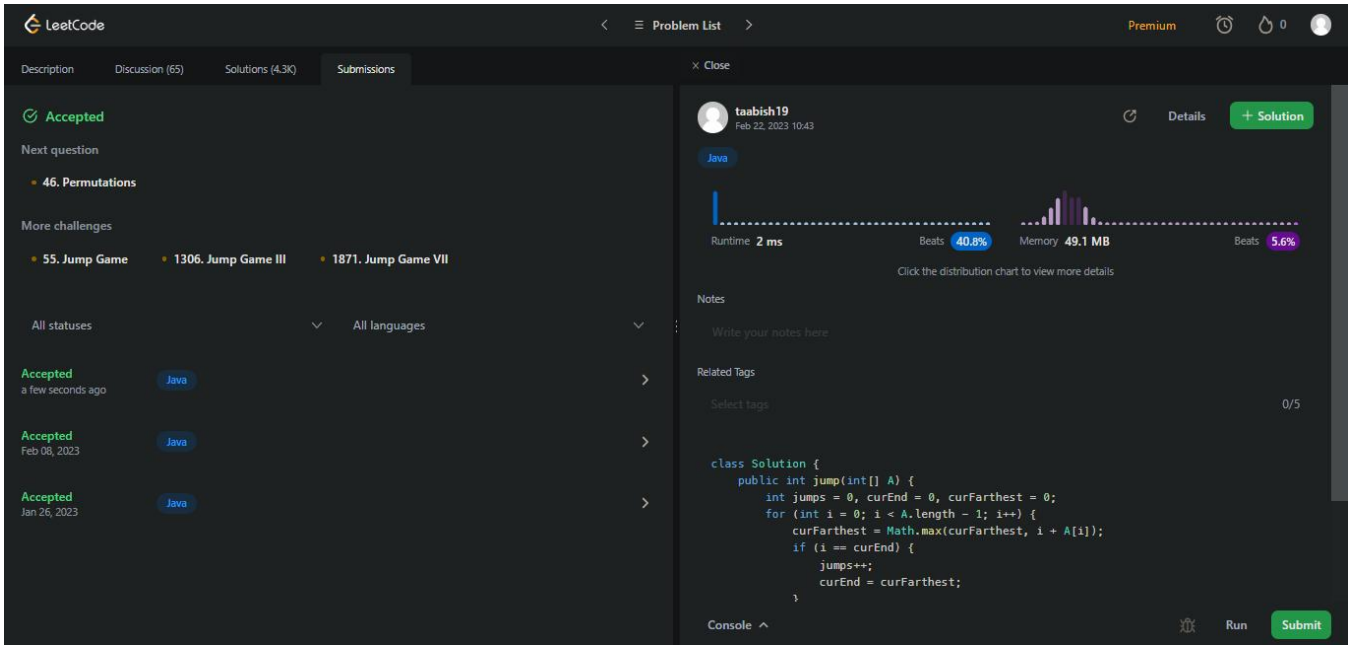

Probem2: Remove the duplicate elements from list
https://leetcode.com/problems/remove-duplicates-from-sorted-list-ii/

Program Code:

```
class Solution {
    public ListNode deleteDuplicates(ListNode head) {
        if (head == null) return null;

        ListNode ans = new ListNode();
        ans.next = head;
        ListNode ptr = ans;

        while (ptr.next != null && ptr.next.next != null) {

            if (ptr.next.val == ptr.next.next.val) {
                int value = ptr.next.val;
                while (ptr.next != null && ptr.next.val == value) {
                    ptr.next = ptr.next.next;
                }
            } else {
```

```
            ptr = ptr.next;
        }
    }
    return ans.next;
  }
}
```

Output: