





UNIVERSITY INSTITUTE OF ENGINEERING

Department of Computer Science & Engineering

Subject Name: Competitive Coding 2

Subject Code: 20CSP-351

Submitted to: Submitted by:

Faculty name: Mr. Ankesh Gupta Name: Sahil Kaundal

UID: 21BCS8197

Section: 616

Group: A







INDEX

Ex. No	List of Experiments	Conduct	Viva	Record	Total	Remarks/Signature
		(MM: 12)	(MM: 10)	(MM: 8)	(MM: 30)	
1.	Arrays, Stacks, Queues linked list					
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						





Experiment 1.1

Student Name: Sahil Kaundal UID: 21BCS8197

Branch: BE CSE (Lateral Entry) Section/Group: 616/A

Semester: 6th Date of Performance: 22/02/2023

Subject Name: CC-2 Lab Subject Code: 20CSP-351

1. Aim/Overview of the practical:

Implement Jump Game-II

You are given a [0]-indexed array of integers nums of length n. You are initially positioned at nums[0]. Each element nums[i] represents the maximum length of a forward jump from index i. In other words, if you are at nums[i], you can jump to any nums[i + j]

https://leetcode.com/problems/jump-game-ii/

2. Apparatus / Simulator Used:

- Windows 7 or above
- Google Chrome

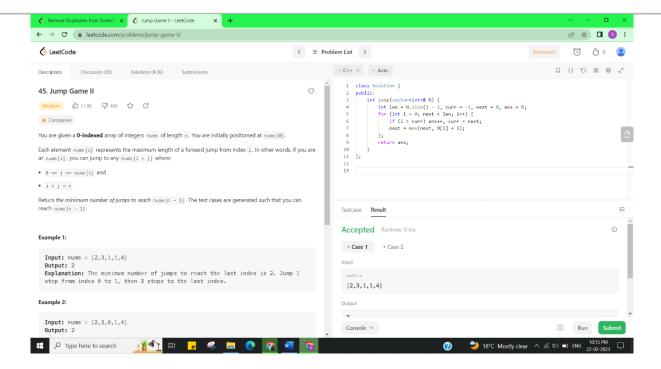
3. Code:

4. Result/Output/Writing Summary:









Experiment 1.2

1. Aim/Overview of the practical:

Remove the duplicate elements from list.

Given the head of a sorted linked list, *delete all nodes that have duplicate numbers, leaving only distinct* numbers from the original list. Return the linked list sorted as well.

https://leetcode.com/problems/remove-duplicates-from-sorted-list-ii/

2. Apparatus / Simulator Used:

- Windows 7 or above
- Google Chrome

3. Code:

```
class Solution {
public:
    ListNode* deleteDuplicates(ListNode* head) {
        ListNode* dummy = new ListNode(0);
        dummy->next = head;
        ListNode* cur = dummy;
        int duplicate;
        while (cur->next && cur->next->next) {
            if (cur->next->val == cur->next->val) {
```

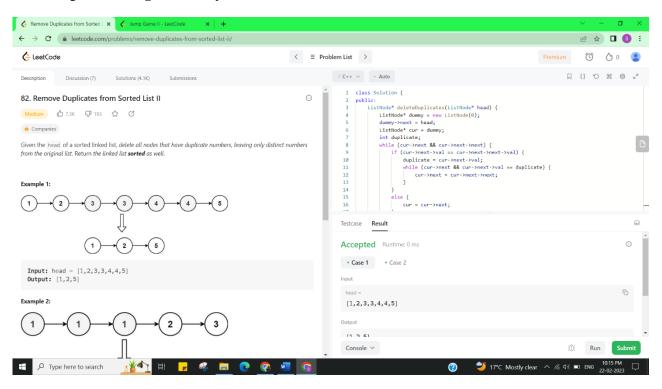






```
duplicate = cur->next->val;
    while (cur->next && cur->next->val == duplicate) {
        cur->next = cur->next;
    }
    else {
        cur = cur->next;
    }
}
return dummy->next;
};
```

4. Result/Output/Writing Summary:



Learning outcomes (What I have learnt):

- Learned the concept of jump game-2.
- Learnt about Remove the duplicate elements from list.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			

