

# Rajalakshmi Engineering College

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 1\_COD\_Question 6

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

John is tasked with creating a program to manage student roll numbers using a singly linked list.

Write a program for John that accepts students' roll numbers, inserts them at the end of the linked list, and displays the numbers.

##### ***Input Format***

The first line of input consists of an integer N, representing the number of students.

The second line consists of N space-separated integers, representing the roll numbers of students.

##### ***Output Format***

The output prints the space-separated integers singly linked list, after inserting the roll numbers of students at the end.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 5

23 85 47 62 31

Output: 23 85 47 62 31

### **Answer**

// You are using GCC

```
struct Node* insertAtEnd(struct Node *head, int val){
    struct Node *nd=(struct Node*)malloc(sizeof(nd));
    if (nd==NULL)return head;
    nd->rollNumber=val;
    nd->next=NULL;
    if (head==NULL){
        head=nd;
        return head;
    }
    struct Node *temp=head;
    while(temp->next!=NULL){
        temp=temp->next;
    }
    temp->next=nd;
    return head;
}
```

```
void display(struct Node *head){
    while(head!=NULL){
        printf("%d ", head->rollNumber);
        head=head->next;
    }
    printf("\n");
}
```

**Status :** Correct

**Marks :** 10/10