

# 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 rollNumber)
{
    struct Node*newNode=(struct Node*)malloc(sizeof(struct Node));
    newNode->rollNumber=rollNumber;
    newNode->next=NULL;

    if(head==NULL){
        return newNode;
    }

    struct Node* temp=head;
    while(temp->next !=NULL){
        temp=temp->next;
    }
    temp->next=newNode;
    return head;
}

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

Status : Correct

Marks : 10/10