

# 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**

```
struct Node* insertAtEnd(struct Node* head,int data){  
    struct Node* newNode=(struct Node*)malloc(sizeof(struct Node));
```

```
    newNode->rollNumber = data;  
    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;  
}  
}
```

**Status :** Correct

**Marks :** 10/10