

# 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 rollNumber){
    struct Node* data = (struct Node*)malloc(sizeof(struct Node));
    data->rollNumber = rollNumber;
    data->next = NULL;
    if(head==NULL)
        return data;
    else{
        struct Node *temp = head;
        while(temp->next!=NULL)
            temp = temp->next;
        temp->next = data;
        return head;
    }
}

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

// int main()
// {
//     int n,rollno;
//     scanf("%d", &n);
//     scanf("%d", &rollno);
//     Node* head = newNode(rollno);
//     Node* temp = head;
```

```
// while(--n){  
//     scanf("%d",&rollno);  
//     temp->next = newNode(rollno);  
//     temp = temp->next;  
// }  
// traverse(head);  
// }
```

**Status :** Correct

**Marks :** 10/10