

# 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
#include<stdio.h>
#include<stdlib.h>
struct Node{
    int rollnumber;
    struct Node*next;
};
typedef struct Node node;
void display(node* head)
{
    node* temp = head;
    while(temp!=NULL){
        printf("%d ",temp->rollnumber);
        temp=temp->next;
    }
    printf("\n");
}
node* insertAtEnd(node* head,int roll)
{
    node* newnode=(node*)malloc(sizeof(node));
    newnode->rollnumber=roll;
    newnode->next=NULL;
    if(head==NULL)
    {
        return newnode;
    }
    node* position = head;
    while(position->next!=NULL)
```

```
{
    position=position->next;
}
position->next=newnode;
return head;
}
int main(){
    node*head=NULL;
    int n,roll;
    scanf("%d",&n);
    for(int i=0;i<n;i++){
        scanf("%d",&roll);
        head=insertAtEnd(head,roll);
    }
    display(head);
    return 0;
}
```

**Status :** Correct

**Marks :** 10/10