

# 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 data;
    struct Node* next;
};
struct Node* insertlast(struct Node* head, int value)
{
    struct Node* newnode = (struct Node*)malloc(sizeof(struct Node));
    newnode->data=value;
    newnode->next=NULL;
    if(head==NULL)
    {
        head = newnode;
    }
    else
    {
        struct Node* temp = head;
        while(temp->next!=NULL)
        {
            temp = temp->next;
        }
        temp->next = newnode;
    }
    return head;
}
int main()
```

```
{
    struct Node* head = NULL;
    int n;
    scanf("%d",&n);
    int value;
    for(int i=0; i<n; i++)
    {
        scanf("%d",&value);
        head = insertlast(head,value);
    }
    struct Node* temp = head;
    while(temp!=NULL)
    {
        printf("%d ",temp->data);
        temp = temp->next;
    }
    return 0;
}
```

**Status :** Correct

**Marks :** 10/10