# Rajalakshmi Engineering College

Name: NITHYASHREE K
Email: 240701369@rajalakshmi.edu.in
Roll no: 240701369
Phone: 9043544115
Branch: REC
Department: I CSE FD
Batch: 2028
Degree: B.E - CSE

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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;
};
typedef struct node Node;
void insert(Node**head,int x)
{
   Node*newnode;
   newnode=(Node*)malloc(sizeof(Node));
   newnode->data=x;
   newnode->next=NULL;
   if(*head==NULL)
   {
      *head=newnode;
      return;
   }
   Node*current=*head;
   while(current->next!=NULL)
   {
      current=current->next;
   }
   current->next=newnode;
   return;
}
void display(Node*head)
```

```
{
    Node*current=head;
    while(current!=NULL)
    {
        printf("%d",current->data);
        current=current->next;
    }
    return;
}
int main()
{
    Node*head=NULL;
    int n;
    scanf("%d",&n);
    int a;
    for(int i=0;i<n;i++)
    {
        scanf("%d",&a);
        insert(&head,a);
    }
    display(head);
}
```

***Status :*** Correct ***Marks : 10/10***