# Rajalakshmi Engineering College

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Branch: REC

Department: I CSE FE

Batch: 2028

Degree: B.E - CSE



# 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.

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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 e){
    Node*newNode=(Node*)malloc(sizeof(Node));
    newNode->data=e:
    newNode->next=NULL;
    if(*head==NULL){
      *head=newNode;
      return;
    Node*position=*head;
    while(position->next)
    position=position->next;
    position->next=newNode;
 void display(Node*head){
    Node*position=head;
    while(position!=NULL){
    printf("%d ",position->data);
     position=position->next;
```

```
printf("\n");
}
int main(){
    Node*List=NULL;
    int n,a;
    scanf("%d",&n);
    for(int i=0;i<n;i++){
        scanf("%d",&a);
        insert(&List,a);
    }
    display(List);
    return 0;
}</pre>
Status: Correct

Marks: 10/10
```