# Rajalakshmi Engineering College

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Branch: REC

Department: I ECE FA

Batch: 2028

Degree: B.E - ECE



### 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
   #include<stdio.h>
#include<stdlib.h>
   typedef struct Node {
     int data:
     struct Node* next:
   }Node;
   void insertAtEnd(Node** head,int data) {
     Node* newNode=(Node*)malloc(sizeof(Node));
     newNode->data=data;
     newNode->next=NULL;
     if(*head==NULL){
     Node* temp=*head;
while(temp->nev*)
temp-*
     }
     temp->next=newNode;
   void displayList(Node* head){
     Node* temp=head;
     while(temp!=NULL){
     printf("%d ",temp->data);
       temp=temp->next;
```

```
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      printf("\n");
   int main() {
      int N,data;
      Node* head=NULL;
      scanf("%d",&N);
      for(int i=0;i< N;i++){
        scanf("%d",&data);
        insertAtEnd(&head,data);
      }
      displayList(head);
      return 0;
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Status : Correct
                                                                    Marks : 10/10
```

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