# Rajalakshmi Engineering College

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Branch: REC

Department: I AI & ML FA

Batch: 2028

Degree: B.E - AI & ML



## 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;
   };
   void insertAtEnd(struct Node**head,int data)
     struct Node* newNode=(struct Node*)malloc(sizeof(struct Node));
     newNode->data=data;
     newNode->next=NULL;
   if(*head==NULL){
       *head=newNode;
       return;
     struct Node* temp=*head;
     while(temp->next!=NULL){
       temp=temp->next;
     temp->next=newNode;
   }
   void display(struct Node*head){
     struct Node*temp=head;
     while(temp!=NULL){
       printf("%d ",temp->data);
       temp=temp->next;
```

```
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     int main(){
       int N, value;
       struct Node*head=NULL;
       scanf("%d",&N);
       for(int i=0;i< N;i++){
         scanf("%d",&value);
         insertAtEnd(&head,value);
       display(head);
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       return 0;
                                                                  Marks: 10/10
     Status: Correct
```

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