# Rajalakshmi Engineering College

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Branch: REC

Department: I CSE AH

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.

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>
   struct Node{
     int data:
     struct Node* next;
   };
   struct Node* insert(struct Node* head,int value){
     struct Node* newNode=(struct Node*)malloc(sizeof(struct Node));
     newNode->data=value;
     newNode->next=NULL;
   if(head==NULL){
       return newNode;
     struct Node* temp=head;
     while(temp->next!=NULL){
       temp=temp->next;
     temp->next=newNode;
     return head;
   }
   void printList(struct Node* head){
```

struct Node\* temp=head; while(temp!=NULL){

```
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   printf("%d",temp->data);
   temp=temp->next;
void freeList(struct Node* head){
  struct Node* temp;
  while(head!=NULL){
    temp=head;
    head=head->next;
    free(temp);
  }
}
int main(){
  int n;
  scanf("%d",&n);
  struct Node* head=NULL;
  for(int i=0;i<n;i++){
    int v;
    scanf("%d",&v);
    head=insert(head,v);
  }
  printList(head);
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```

Status: Correct Marks: 10/10

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