# Rajalakshmi Engineering College

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Branch: REC

Department: I AIML AD

Batch: 2028

Degree: B.E - AI & ML



## NeoColab\_REC\_CS23231\_DATA STRUCTURES

REC\_DS using C\_Week 1\_COD\_Question 6

Attempt : 2 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){
       printf("%d ",temp->data);
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       temp=temp->next;
  void freeList(struct Node* head){
```

```
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         --NULL){
cemp=head;
head=head->next;
free(head);
while(head!=NULL){
temp=head
       }
     int main(){
       int n;
       scanf("%d",&n);
       struct Node* head=NULL;
       for(int i=0;i<n;i++){
                                                                                        241501074
          int v;
                                                          24,150,1074
         head=insert(head,v);
rintList(head);
       printList(head);
       return 0;
     }
```

Status: Correct Marks: 10/10

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