# Rajalakshmi Engineering College

Name: Shasmeen Syed

Email: 240701492@rajalakshmi.edu.in

Roll no: 2116240701492 Phone: 9677485510

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 4

Attempt: 1 Total Mark: 10 Marks Obtained: 10

Section 1: Coding

### 1. Problem Statement

As part of a programming assignment in a data structures course, students are required to create a program to construct a singly linked list by inserting elements at the beginning.

You are an evaluator of the course and guide the students to complete the task.

## **Input Format**

The first line of input consists of an integer N, which is the number of elements.

The second line consists of N space-separated integers.

Output Format

The output prints the singly linked list elements, after inserting them at the beginning.

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Refer to the sample output for formatting specifications.

```
Sample Test Case
```

```
Input: 5
78 89 34 51 67
Output: 67 51 34 89 78
Answer
#include <stdio.h>
#include <stdlib.h>
struct Node {
  int data:
  struct Node* next;
};
// You are using GCC
void insertAtFront(struct Node** head,int value)
  struct Node* newn=(Node*)malloc(sizeof(Node));
  newn->data=value;
  newn->next=*head;
  *head=newn;
void printList(Node* head)
  struct Node* temp=head;
  while(temp!=NULL)
    printf("%d",temp->data);
    temp=temp->next;
  printf("\n");
int main(){
  struct Node* head = NULL;
```

```
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int n;
scar
         scanf("%d", &n);
         for (int i = 0; i < n; i++) {
           int activity;
           scanf("%d", &activity);
           insertAtFront(&head, activity);
         }
         printList(head);
         struct Node* current = head;
                                                                                 21762407074992
         while (current != NULL) {
         struct Node* temp = current;
           current = current->next;
           free(temp);
         return 0;
       }
```

Status: Correct Marks: 10/10

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