

# Rajalakshmi Engineering College

Name: HARI PRIYA P  
Email: 241801081@rajalakshmi.edu.in  
Roll no: 241801081  
Phone: 9345508876  
Branch: REC  
Department: I AI & DS FB  
Batch: 2028  
Degree: B.E - AI & DS

Scan to verify results



## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 2\_COD\_Question 4

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Ravi is developing a student registration system for a college. To efficiently store and manage the student IDs, he decides to implement a doubly linked list where each node represents a student's ID.

In this system, each student's ID is stored sequentially, and the system needs to display all registered student IDs in the order they were entered.

Implement a program that creates a doubly linked list, inserts student IDs, and displays them in the same order.

##### ***Input Format***

The first line contains an integer N the number of student IDs.

The second line contains N space-separated integers representing the student IDs.

### **Output Format**

The output should display the single line containing N space-separated integers representing the student IDs stored in the doubly linked list.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 5

10 20 30 40 50

Output: 10 20 30 40 50

### **Answer**

```
// You are using GCC
```

```
#include<stdio.h>
```

```
#include<stdlib.h>
```

```
int main(){
```

```
    int n;
```

```
    scanf("%d",&n);
```

```
    int a[n];
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
        scanf("%d",&a[i]);
```

```
    }
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
printf("%d",a[i]);
```

```
}
```

```
}
```

**Status :** Correct

**Marks :** 10/10