

## Problem – 1

### 1. TITLE OF THE LAB EXPERIMENT

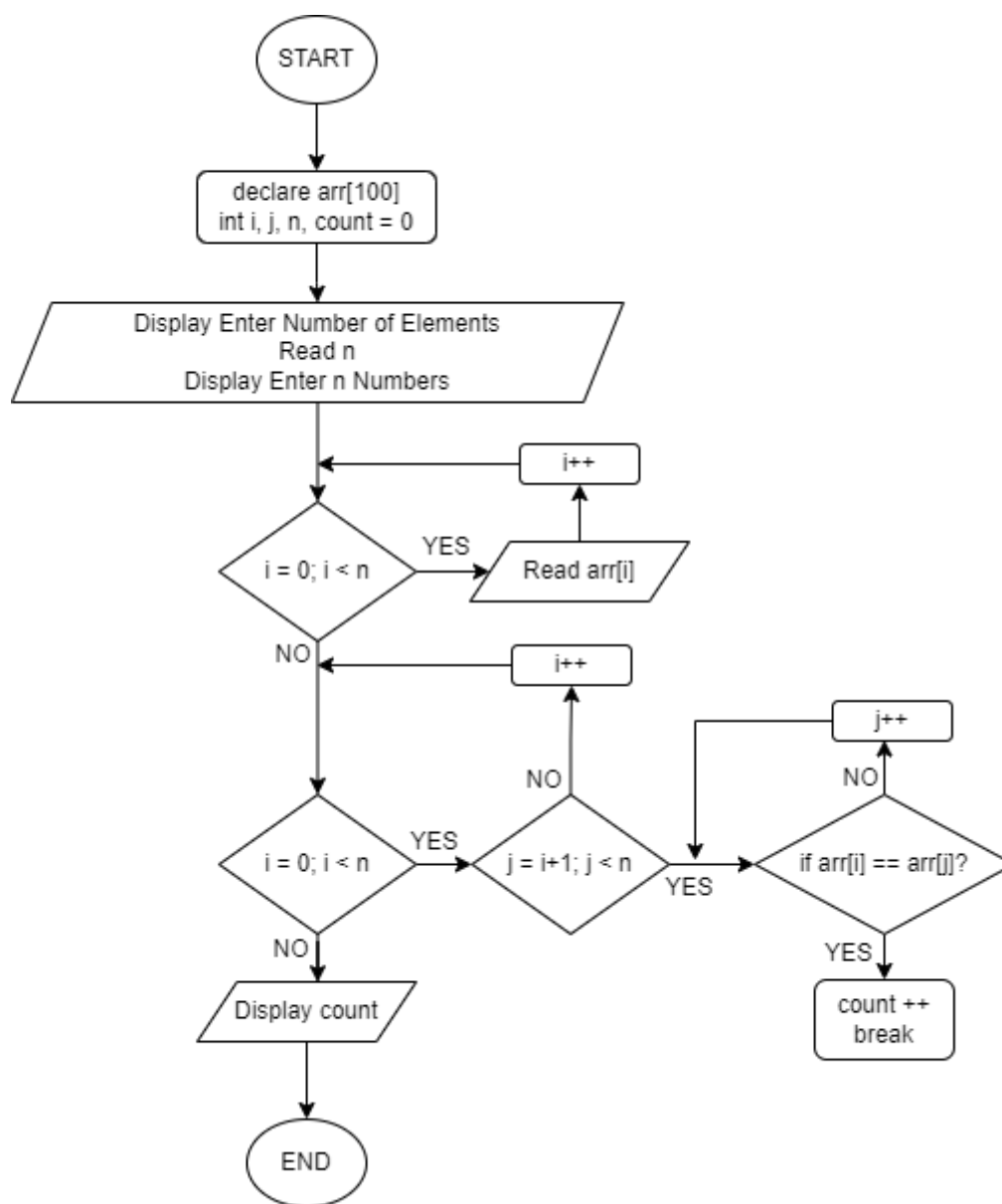
Write a program in C to count a total number of duplicate elements in an array.

### 2. OBJECTIVES

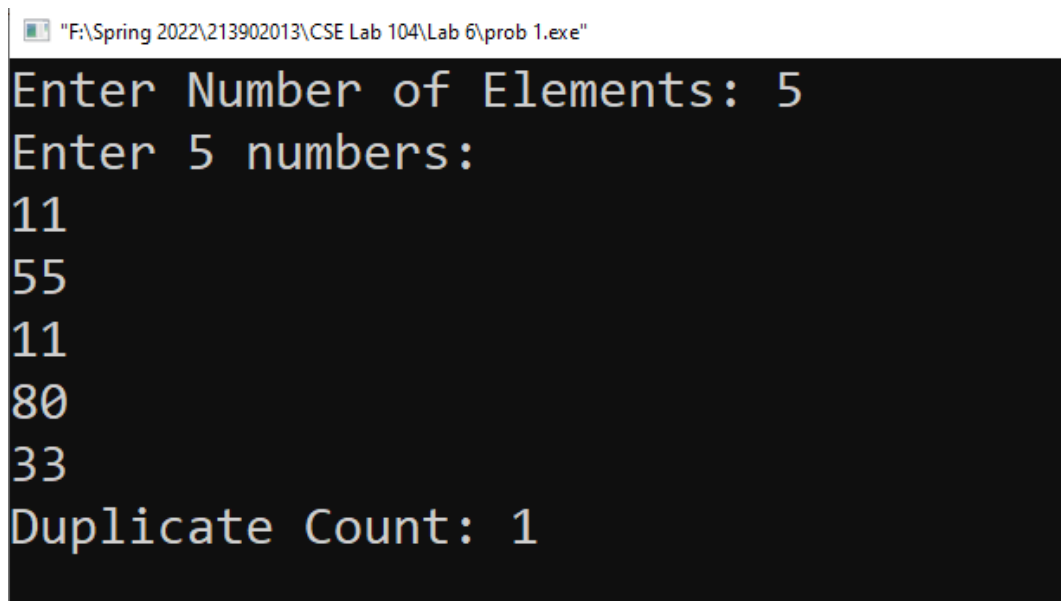
Here we are trying to find the duplicate elements in an array.

### 3. PROCEDURE

Flow chart -



## 5. TEST RESULT



A screenshot of a Windows command prompt window titled "F:\Spring 2022\213902013\CSE Lab 104\Lab 6\prob 1.exe". The window shows the following text: "Enter Number of Elements: 5", "Enter 5 numbers:", "11", "55", "11", "80", "33", and "Duplicate Count: 1".

## 6. ANALYSIS AND DISCUSSION

- We got the correct output.
- To complete this assignment we did not face any problems.
- We learned some of the basics of the C program from it.
- We have solved the problem.

## 7. SUMMARY:

We have completed the program by using C.

## Problem – 2

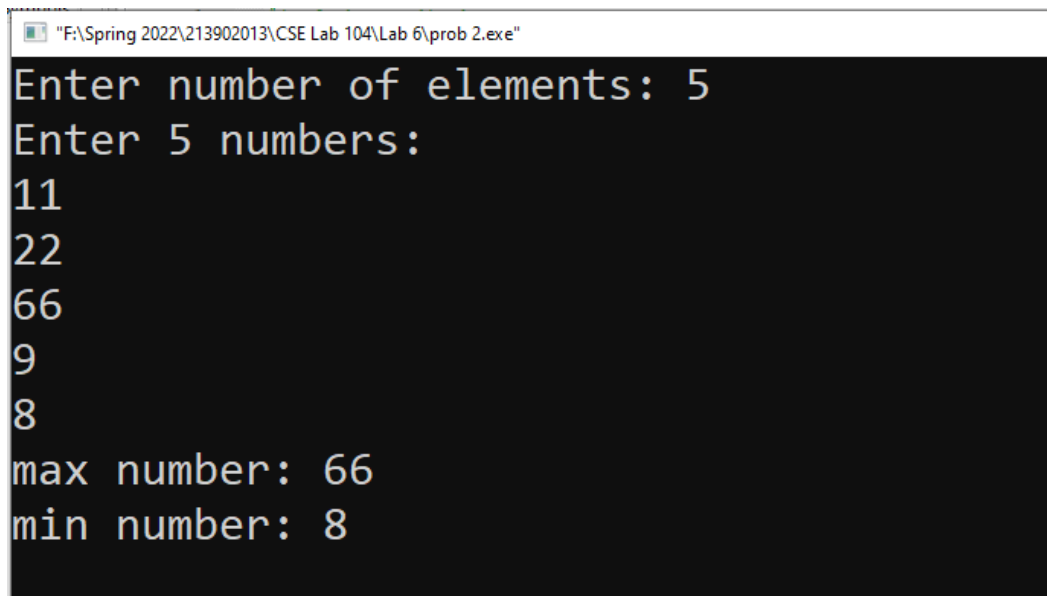
### 1. TITLE OF THE LAB EXPERIMENT

Write a program in C to find the maximum and minimum element in an array.

### 2. OBJECTIVES

Here we are trying to find out the maximum and minimum element in an array.

## 5. TEST RESULT



A screenshot of a Windows command prompt window titled "F:\Spring 2022\213902013\CSE Lab 104\Lab 6\prob 2.exe". The window shows the following text: "Enter number of elements: 5", "Enter 5 numbers:", "11", "22", "66", "9", "8", "max number: 66", and "min number: 8".

## 6. ANALYSIS AND DISCUSSION

- We got the correct output.
- To complete this assignment we did not face any problems.
- We learned some of the basics of the C program from it.
- We have solved the problem.

## 7. SUMMARY:

We have completed the program by using C.

## Problem – 3

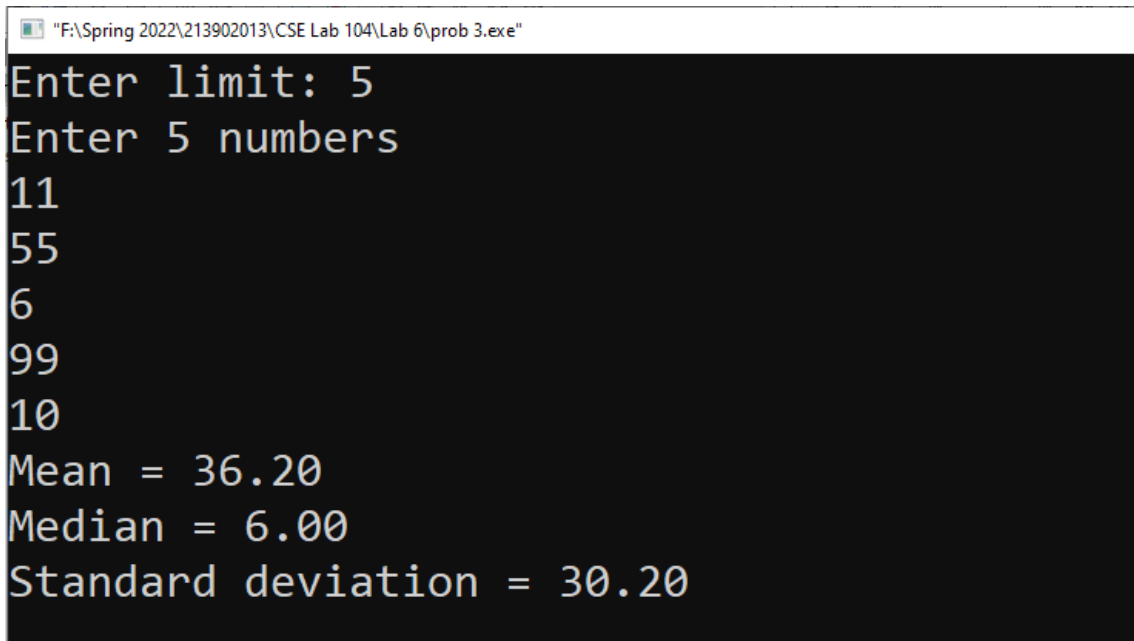
### 1. TITLE OF THE LAB EXPERIMENT

Write a C Program to Calculate mean, median and Standard Deviation.

### 2. OBJECTIVES

Here we are trying to calculate the average, mean and standard deviation of the array provided by the user.

## 5. TEST RESULT



A screenshot of a Windows command prompt window titled "F:\Spring 2022\213902013\CSE Lab 104\Lab 6\prob 3.exe". The window shows the following text: "Enter limit: 5", "Enter 5 numbers", followed by five lines of input: "11", "55", "6", "99", and "10". Below the inputs, the program outputs: "Mean = 36.20", "Median = 6.00", and "Standard deviation = 30.20".

```
"F:\Spring 2022\213902013\CSE Lab 104\Lab 6\prob 3.exe"
Enter limit: 5
Enter 5 numbers
11
55
6
99
10
Mean = 36.20
Median = 6.00
Standard deviation = 30.20
```

## 6. ANALYSIS AND DISCUSSION

- We got the correct output.
- To complete this assignment we did not face any problems.
- We learned some of the basics of the C program from it.
- We have solved the problem.

## 7. SUMMARY:

We have completed the program by using C.

## Problem – 4

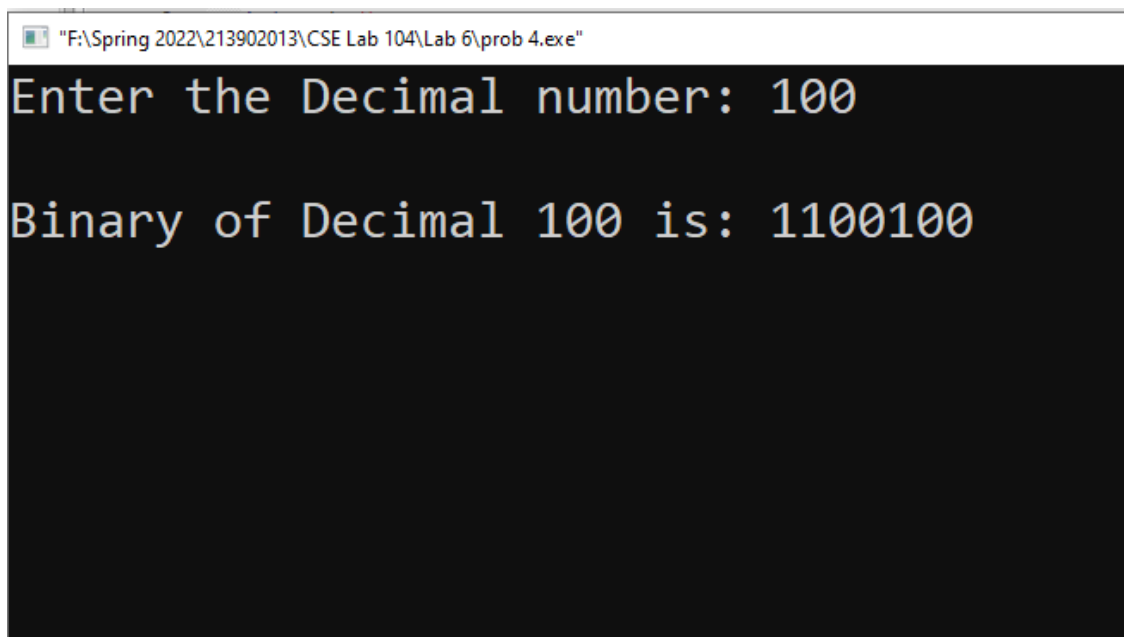
### 1. TITLE OF THE LAB EXPERIMENT

Write a C program to convert Decimal to Binary number system.

### 2. OBJECTIVES

Here we are trying to convert a Decimal number to Binary number.

## 5. TEST RESULT



```
"F:\Spring 2022\213902013\CSE Lab 104\Lab 6\prob 4.exe"
Enter the Decimal number: 100
Binary of Decimal 100 is: 1100100
```

## 6. ANALYSIS AND DISCUSSION

- We got the correct output.
- To complete this assignment we did not face any problems.
- We learned some of the basics of the C program from it.
- We have solved the problem.

## 7. SUMMARY:

We have completed the program by using C.

## Problem – 5

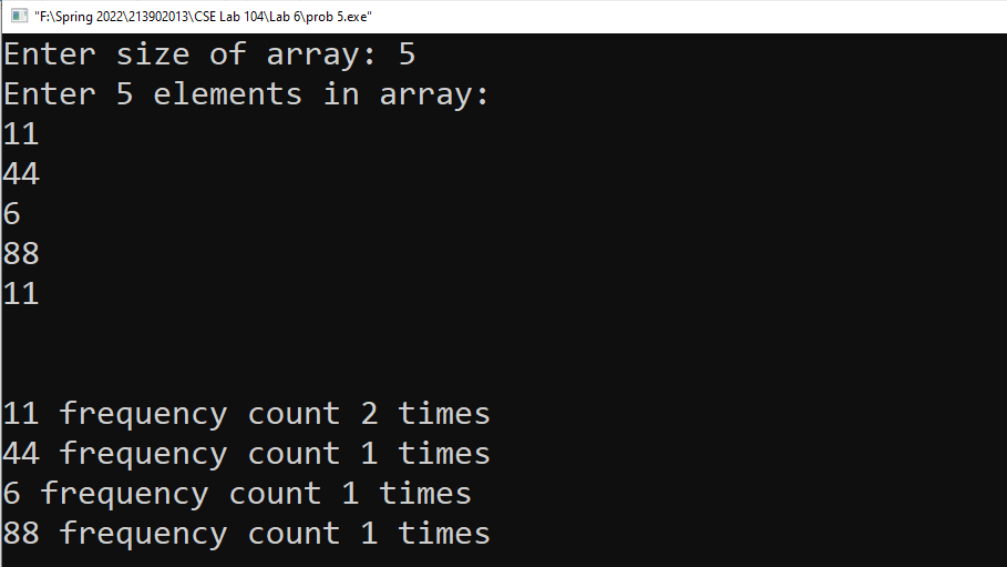
### 1. TITLE OF THE LAB EXPERIMENT

Write a C program to count frequency of each element in an array.

### 2. OBJECTIVES

Here we are trying to count frequency of each element in an array.

## 5. TEST RESULT

A screenshot of a Windows command prompt window titled "F:\Spring 2022\213902013\CSE Lab 104\Lab 6\prob 5.exe". The window shows the execution of a C program. The user is prompted to "Enter size of array:" and enters "5". Then, the user is prompted to "Enter 5 elements in array:" and enters the numbers "11", "44", "6", "88", and "11" on separate lines. The program then outputs the frequency count for each element: "11 frequency count 2 times", "44 frequency count 1 times", "6 frequency count 1 times", and "88 frequency count 1 times".

```
"F:\Spring 2022\213902013\CSE Lab 104\Lab 6\prob 5.exe"
Enter size of array: 5
Enter 5 elements in array:
11
44
6
88
11

11 frequency count 2 times
44 frequency count 1 times
6 frequency count 1 times
88 frequency count 1 times
```

## 6. ANALYSIS AND DISCUSSION

- We got the correct output.
- To complete this assignment we did not face any problems.
- We learned some of the basics of the C program from it.
- We have solved the problem.

## 7. SUMMARY:

We have completed the program by using C.

## Problem – 6

### 1. TITLE OF THE LAB EXPERIMENT

Write a C Program to Find Transpose of a Matrix.

### 2. OBJECTIVES

Here we are trying to Find Transpose of a Matrix

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## 5. TEST RESULT

"F:\Spring 2022\213902013\CSE Lab 104\Lab 6\prob 6.exe"

```
Enter row: 2
Enter column: 3
```

```
A[0][0]=2
```

```
A[0][1]=3
```

```
A[0][2]=6
```

```
A[1][0]=1
```

```
A[1][1]=2
```

```
A[1][2]=5
```

```
[A]=
```

```
2 3 6
```

```
1 2 5
```

```
Transpose of [A]=
```

```
2 1
```

```
3 2
```

```
6 5
```

## 6. ANALYSIS AND DISCUSSION

- We got the correct output.
- To complete this assignment we did not face any problems.
- We learned some of the basics of the C program from it.
- We have solved the problem.

## 7. SUMMARY:

We have completed the program by using C.