1-D Array

Course Code: CSC 2107 Course Title: Data Structure (Lab)

Dept. of Computer Science
Faculty of Science and Technology

Lecturer No:	**2**	**Week No:**	**2**	**Semester:**	**Fall 2022-23**
Lecturer:	*Nyme Ahmed (nyme.ahmed@aiub.edu)*				

Problem Descriptions

Problem 1

1. Write a C++ program to create an integer array where size should be more than five. Then make a new array from it without the prime elements and print the new array. You must take the elements of the array from the user.

For example,
Array_1 = `{4,8,11,14,16,19}`

Output: `4 8 14 16`

Problem Descriptions

Problem 2

2. Write a C++ program to create an integer array of size 7. Then take an number from the user and print how many times that number occurs in that array. You must take the elements of the array from the user.

For example,
Array_1 = `{9,1,5,9,2,5,6}`

Output:

```
Input a number to search: 9
The number occurs 2 times in the array
```

Problem Descriptions

Problem 3

3. Write a C++ program to create an integer array of size 12. Print the number of time each element occurs in that array. You must take the elements of the array from the user.

For example,
Array_1 = `{4,2,9,1,5,2,9,1,4,1,5,9}`

Output:

```
4 occurs = 2 times
2 occurs = 2 times
9 occurs = 3 times
1 occurs = 3 times
5 occurs = 2 times
```

Problem Descriptions

Problem 4

4. Write a C++ program of two integer arrays where size should be more than five. Merge them and create a new array. Then print the new array in descending order.

For example,
Array_1 = `{11,3,6,8,1,5}`
Array_2 = `{12,9,4,2,10,7}`

Output: `12 11 10 9 8 7 6 5 4 3 2 1`

Problem Descriptions

Problem 5

5. Write a C++ program of two integer arrays where size should be more than five. Then make a new array with the even elements between them and print the new array.

For example,
Array_1 = `{4,1,8,5,2,11}`
Array_2 = `{3,6,9,10,7,4}`

Output: `2 4 4 6 8 10`