

American International University-Bangladesh

Data Structure Lab

Mid Term Assignment

Fall 2022-23

Total marks: 20

Deadline: 07-11-22

“Copy and pasting code without understanding is like chewing a gum that is already chewed by someone else”

*First you will research on how to create a .h file and how to use it in C++ program. Then create a .h file named as **arrayImplement.h** which will be used as the library and will have these following functions. Demonstrate the use of that library in a **test.cpp** file.*

*(Student must follow the **exact name of functions and files**. The **syntax alignment** has to be as it should be)*

```
//Functions for 1D array
print1DArray(int *array, int size)
reversePrint1DArray(int *array, int size)
input1DArray(int *array, int size)
searchIn1DArray(int *array, int size, int searchKey)
findMax1DArray(int *array, int size)
findMin1DArray(int *array, int size)
copy1DArray(int *sourceArray, int *destinationArray, int size)
```

```
//Functions for 2D array
print2DArray(int **array, int size)
reversePrint2DArray(int **array, int size)
input2DArray(int **array, int size)
searchIn2DArray(int **array, int size, int searchKey)
findMax2DArray(int **array, int size)
findMin2DArray(int **array, int size)
copy2DArray(int **sourceArray, int **destinationArray, int size)
```

You have to submit a zip file containing arrayImplement.h and test.cpp file on **portal** within the mentioned deadline.