

# CSCI 1301 – Lab 26

November 26, 2018

## 1 Array Algorithms

Write a program that

1. declares an array `myArray` of `int` of size 10,
2. initializes `myArray` with ten values of your choice (one of them should be 5),
3. displays the content of `myArray`,
4. displays the greatest value in `myArray`,
5. displays the lowest value in `myArray`,
6. displays the average of the values in `myArray`,
7. display `true` if the number 5 occurs in `myArray`, false otherwise,
8. display the smallest index where the number 5 occurs in `myArray`, `-1` otherwise,
9. display `true` if every number in `myArray` occurs exactly once.

An example of execution could be:

The content of the array is: 0 3 5 -3 10 5 7 8 9 123

The greatest value in the array is: 123

The lowest value in the array is: -3

The average of the values in the array is: 16.7

The number 5 occurs in the array: true

The smallest index where the number 5 occurs is: 2

Every number occurs exactly once in the array: false

Once this works, change the values in the array and make sure your program has the right output.

## 2 Array Algorithms: Pushing Further (Optional)

Continue working on your program, and add portion of code that

1. display the first index where the lowest value of `myArray` occurs,
2. display the last index where the greatest value of `myArray` occurs,
3. declare a second array of `int`, and fills it with values,
4. display `true` if the second array is of the same size as `myArray`,
5. display `true` if the second array has at least one value in common with `myArray`.