**Class Lab 1**

**ISCG 6426**

**Data Structures and Algorithms**

**Semester 1, 2021**

Department of Computing, Electrical and Applied Technology

Class Lab 1

**Released:** April 9th, 2021

**Due date:** April 16th, 2021

**Percentage Mark:** 6% (1 of 5)

Student ID: [studentid]

Full Name: [first+last name]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Testing Results | | | | |
| **Algorithms** | **Test array size** | | | |
| **100** | **1000** | **10000** | **100000** |
| Linear Search | [time to run] |  |  |  |
| Binary Search |  |  |  |  |
| [sorting algo 1] |  |  |  |  |
| [sorting algo 2] |  |  |  |  |

**Conclusions**

provide your conclusions of the above results. Topics to discuss in your conclusions include, but are not limited to:

* Time complexity (big O, big Theta, big Omega).
* Impact of random vs sorted arrays on search algorithms.
* Smaller vs longer arrays.
* Time consistency of algorithms (fluctuations in results from repeating the same test).

[conclusion here]