**COMP 2611**

DATA STRUCTURES

PROJECT: ANALYSIS OF SORTING ALGORITHMS

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**INTRODUCTION**

This report seeks to analyse several sorting algorithms using several experiments and testing. These experiments will be conducted in the C++ programming language using the Dev-C++ development environment. Several data sets of increasing sizes will be generated containing random values and will be used to evaluate the performance and efficiency of the sorting algorithms. The effects of different data sets on the sorting algorithms will then be compared and the discrepancies noted and analysed.

The following is a list of sorting algorithms that will be examined in this report:

1. Selection Sort
2. Bubble Sort
3. Insertion Sort
4. Quicksort
5. Mergesort
6. Heapsort
7. Custom Sort

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