

Assignment 1 – Workload and Tasks

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In this assignment, we are going to be investigating the actual performance of different sorting methods. Additionally, we will implement 3 sorting methods on a linked list.

Sorting Arrays Implementation

- 1.) a. Bubble sort - Travis
- b. Insertion sort - Guillermo
- c. Merge-sort - Charlie
- d. Quicksort - Avery
- e. Heap-sort - Travis
- f. Counting sort - Avery
- g. Radix-sort - Charlie

Sorting Arrays Testing and Analyzation

- 2.) a. Run 10 tests of each sort operation and record average time in a table. - Avery
- b. Analyze run time data given Big O notation for each sorting algorithm. - Travis

Linked List Class

- 3.) a. Create student information - Guillermo
- b. Menu interface for linked list. - Charlie
- c. Merge sort for linked list. - Charlie
- d. Bubble sort for linked list. - Travis
- e. Quick sort for linked list. - Avery