**CS 0445 Fall 2020 Assignment 4**

**Name: \_\_\_\_\_\_\_\_\_\_david R\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# Program Execution:

Input values read / used correctly: \_\_\_\_5\_\_\_\_\_\_ (5)

Random Pivot Quicksort implemented correctly: \_\_\_15\_\_\_\_\_\_\_ (15)

MIN\_SIZE variable and setMinSize() method: \_\_\_10\_\_\_\_\_\_\_ (10)

All algorithms sort correctly: \_\_\_10\_\_\_\_\_\_\_ (10)

Variable base case size handled by algorithms: \_\_\_10\_\_\_\_\_\_\_ (10)

Trace Output Mode implemented and runs correctly: \_\_\_10\_\_\_\_\_\_\_ (10)

Random data initialized correctly / same for all algos: \_\_\_15\_\_\_\_\_\_\_ (15)

Sorted / reversed data initialized correctly: \_\_\_5\_\_\_\_\_\_\_ (5)

Timing of trials done correctly: \_\_\_15\_\_\_\_\_\_\_ (15)

All runs (base case sizes x algos x data setups x trials) for a given size

done in one execution: \_\_\_\_10\_\_\_\_\_\_ (10)

Output sent to file and formatted correctly: \_\_\_\_5\_\_\_\_\_\_ (5)

**Results / Write-up:**

Results are correct / consistent / feasible: \_\_\_\_10\_\_\_\_\_\_ (10)

Results tabulated / presented in spreadsheet: \_\_\_10\_\_\_\_\_\_\_ (10)

Write-up / conclusions: \_\_\_\_10\_\_\_\_\_\_ (10)

**Assignment Information Sheet/Submission:** \_\_\_\_5\_\_\_\_\_\_ (5)

**Documentation:** \_\_\_5\_\_\_\_\_\_\_ (5)

**Subtotal:** \_\_\_150\_\_\_\_\_\_\_ (150)

**Normalized Subtotal (Subtotal / 1.5):**  \_\_\_100\_\_\_\_\_\_ (100)

**Extra Credit:** \_\_\_\_10\_\_\_\_\_\_ (10)

**Late Penalty:** \_\_\_\_\_\_\_\_\_\_ (-15)

**Total: \_110\_\_\_ (100)**