SU2022 COP3502 Programming Assignment 3 - Analysis

Did the results of your program confirm what you already knew or suspected about these sorting algorithms? How?

The result of my program confirmed what I already knew about the sorting algorithms. Fast ones such as quick, merge, and merge insertion sort performed much better than their slower counterpart. As the data got larger, bubble sort, selection sort, and insertion sort became unreliable.

What differences did you see between and among the slow (bubble, selection, insertion) and fast (quick, merge, merge-insertion) algorithms?

Slower sort tends to be less complex in implementation. For example, implementing bubble sort only required one function – a loop within a loop, whereas implementing merge sort required me to use recursion, then merging – creating two temp array in the heap, storing my sub-list data, comparing each monster in "I", and repairing the list.