# Sorting algorithms used:

* Merge Sort
  + Slower execution in the program.
  + Average big O of n log n.
  + Uses more memory depending on the number of values to sort.
* Insertion Sort
  + Faster execution in the program than merge sort, indicating the numbers used were not truly random, or that the implementation of merge sort was flawed.
  + Average big O of n^2
  + Known to be very slow.
  + Very small, easy to debug, useful for sorting very small lists where speed isn’t important.
* Bubble Sort
  + Slowest recorded time in the program.
  + Average big O of n^2.
  + Known to be very slow.
  + Very small, easy to debug, useful for sorting very small lists where speed isn’t important.
* (Inbuilt) quick sort.
  + Fastest execution.
  + Average big O of n log n.
  + Very fast.
  + Well maintained and supported as part of the Java SDK.