Your Name: Sunday Ogbonnaya Onwuchekwa

1. What is one advantage of MergeSort compared to QuickSort, and one advantage of QuickSort?

Unlike QuickSort that is unstable, MergeSort is stable by design; equal elements keep their original order, and well suited to be implemented parallel (multithreading). One advantages of QuickSort is that it requires no additional memory.

1. What sorting algorithm is the default, built-in algorithm used by Python? (Use the Internet to track this down.) Briefly describe how it works.

The default sorting built-in algorithm used by python is Timesort. Timsort is a hybrid-sorting algorithm, derived from merge sort and insertion sort, designed to perform well on many kinds of real-world data. The algorithm finds subsets of the data that are already ordered, and uses the subsets to sort the data more efficiently. This is done by merging an identified subset, called a run, with existing runs until certain criteria are fulfilled.

1. What is the most interesting thing you learned as a part of your work for this class this week?

The most interesting thing I learned this week as part of my work for this class this week is various methods of different types of sorting.

1. Describe one specific way that you helped someone else this week, or reached out for help.

I followed the final video provided by Brother Mellor to finish up with my asteroid project. I also decided to add my above and beyond at the same time.

1. Are there any topics from this week that you still feel uneasy about, or would like to learn more about?

The entire topics from this week was not easy to understand and implement.

1. How much time did you spend this week on each of the following:

* Reading – about 60 minutes
* Checkpoint A – about 20 minutes
* Checkpoint B – about 15 minutes
* Team Activity – about 60 minutes
* Data Structures Homework – about 1 hour
* Prove Assignment – about 10 hours

If you have other questions or comments for the instructor, please post them to Slack, either in the general channel if others can benefit, or as a direct message if the matter is more personal.