**Your Name**: Lucas Vieira Silva

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

Mergesort is a stable classification, unlike quicksort, and can be easily adapted to operate on linked lists and very large lists stored on slow-access media, such as disk storage or network attached storage. QuickSort works great with large lists of intensity.

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

Timsort, it is an algorithm that basically uses sorting by comparison of keys and is derived from merge sort and insertion sort, it was created to have good performance in various types of real-world data.

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

How powerful and important sorting is in programming.

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

I gathered and discussed the week's activity with my classmates.

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

No.

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

Reading - 2

Checkpoint A - 1

Checkpoint B - 1

Team Activity - 1

Data Structures Homework - 2

Prove Assignment – 4

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.