Observations:

The difference between implementing a parallel program using threads and using MPI. In the first project where we were using threads, we could use barriers or locks to ensure that all the threads are synchronized and not overwriting each other's data, while in this project using MPI, we have greater control over the processes since we have to control the data sent to individual processes.

Hands-on experience with MPI functions like scatter and gather.

The advantage of using C which gives a lot of speedups compared to Java. One disadvantage of using C was that special handling is needed for huge inputs since integer goes out of bounds.