Reflection report – CPSC449 A1

This report details the challenges I faced implementing this assignment in C vs Java.

The challenges were as follows:

1)Data structures: unlike Java, the choices for data structures to use in C are very limited so I had to store everything in arrays or resort to using structs to represent data in C.

2)Collections: in my Java implementation I was able to utilise some methods from the Java collections such as max(), whereas in C I had to implement my own mechanisms.

3)Memory allocation: I had to learn the various ways of allocating memory in C (notably calloc which made making arrays cleaner).

4)File I/O: due to the differences in file I/O between Java and C I had to learn some new mechanisms in C (reference included in code file)

Overall this challenge was educational and has refined my knowledge of the C language.