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CPSC 449

**Reflection**

After coding in both Java and C, I noticed there were several differences. Firstly, Java is an object oriented while C is procedural. Another difference is that the string type do not exist in C, instead it is substituted with arrays of characters. I also did not have to worry about memory management in Java, as that is mostly done by the garbage collector. While in C I have to worry about how memory is allocated since it is managed by the user.

The main challenge I faced was coding a low-level language, C. When you compared this to Java, it required more work to code the same functionality. I had to explicitly handle the pointers in C, while in Java you do not have to do this. Another challenge was that C does not have exception handling techniques like Java when you are reading and writing to file.

Overall, I felt that it was much more difficult and tedious to code in C than in Java. There are several quality of life features of java that allows you to code programs more easily.