What I Learned:

This was my first time creating an exception and handling a user-defined exception. I think these kinds of exceptions can be useful when needing to delegate the responsibility of an exception to someone else, instead of handling all edge-cases in-method. Aside from exceptions, I think the rest of the concepts were familiar, but needed some re-learning to shake off the Java rust.

Issues I Encountered:

This was my first-time coding in Java since the Spring semester (I had been coding in other languages this summer), so I think the hardest part was starting the assignment when I was still re-learning the Java syntax.

I had some strange behavior when trying to use a for-each loop to print out the elements in the Gradebook toString() method as Strings. Instead of iterating through each element I had set, the loop iterated through each index, even if I had not initialized it, and printed it out as 0.00. I resolved the issue by reverting to a basic for loop.

What I Would’ve Done Differently:

I would try to abstract the methods in SocSecProcessor into further private helper methods. I also should probably have started writing the Junit tests before working on the implementation.

How I’ll Apply JUnit Tests in the Future:

I will start trying to shift my tests from using a driver to using Junit test cases. I also like the abstraction and structure that Junit provides which allows me to focus on testing or programming.

