Assignment 2 (Stack & Queue) – Implementation Document

Learning Experience

In completing this assignment, I learned a lot about myself and computer science. I have had difficulty wrapping my head around some of the more abstract concepts we have covered in 204, but once I set out to work on this project, I immediately started to become more comfortable with stacks and queues.

In addition, after becoming more confident with exceptions in the previous project, I continued to learn about the hierarchy and order in which certain exceptions should be thrown. Specifically as it related to the DonationManager and its donatePackage method; this method simulates a volunteer donating a package to a recipient, and if it is unsuccessful it is necessary to throw an exception that explains what specifically failed, whether it was that the container stack was empty or the volunteer line had no members.

Although in the future I may implement the Java Library stack and queue classes and not the specific MyQueue and MyStack classes I developed for this assignment, I will forever have a better understanding of how a Stack and Queue works and how its functions behave in optimal conditions.

Github Screenshot

A screenshot of a cell phone

Description automatically generated