Assignment 4 Work Plan
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Started: 4/14/21 | Due: 4/30/21| Demo Goal: 4/29/21

Phases:
1. Read the entire handout thoroughly *Done!*
2. Familiarize self with the problem *Done!*
3. Write helper classes (Customer, Prog4, Queue) *Done!*
4. Plan out big classes (Simulation, ConsoleSimulator) w/ stubcode *Done!*
5. Create class diagram *Done!*
6. Write and test "big" classes *Done!*
7. Create GUI Interface *Done!*
8. Implement GUI Interface *Done!*
9. Test & create final Javadocs *Done!*
10. Submit *Done!*

Date	Time	Task	Comments/Questions
4/14/21	14:00-14:30	Read handout	Ask how to make Javadocs
4/14/21	18:00-18:20	Set up project and team file sharing spaces	Microsoft Teams, and need to find a medium for class diagrams
4/14/21	22:30-23:00	Make class stub code	Does the GUISimulator go in this project?
4/14/21	23:00-23:25	Write customer, and Prog4 classes	Does this one throw IO exceptions?
4/15/21	00:00-00:45	Outline remaining non-FX classes	Splitting tasks between Simulation and ConsoleSimulator is hard
4/18/21	15:00-16:00	Create Class Diagram	How do the classes connect? There are lots of arrow options. My roommate suggested draw.io.
4/18/21	17:00-19:00	Write ConsoleSimulator Class	I'm pretty proud of my algorithm on this one, but we'll see how nicely it plays with Nathan's class. Ask about output lines and error messages.
4/23/21	18:55-19:10	Test Nathan's Simulation Class to confirm correct output.	Finally figured out difference in last statistics output – Nathan's idea to change the code in a certain way
4/23	19:10-21:30	Create GUI Interface	Need to decide if we want to switch to grid. The movable split view is annoying.

4/23/21	21:30-21:50	Update Class Diagram to include GUI Classes	How do we include the actual GUI file, if at all? Also, the arrow options are very limited.
4/25/21	15:00-16:30	Make new GUI interface with grid view; we like this design better	Scenebuilder is sometimes very buggy with the layout
4/26/21	13:00-13:45	Repackage program for Gradescope	Passes all Repl and Gradescope tests with minor tweaking except for the previously-excused method signature tests. I have to remember to configure VM options for both Prog4 and GUIMain to get the program to run
4/27/21	22:00-22:45	Submit to Repl	"unit" vs "units" not working even though it does in Intellij. We need to figure that out.
4/29/21	23:00-23:30	Fix algorithm to avoid magic number	Using tokens at Prof. Gavin's suggestion
4/30/21	19:30-20:20	Proof and submit	We're done!

A note about group work: I was more available than Nathan at the beginning of this project cycle, so I went ahead and wrote the small helper classes such as Prog4 and Customer. We didn't see this as a big deal because they do not have very much hard logic. We split the bigger Simulation/ConsoleSimulation/GUISimulation classes. To both learn JavaFX a bit better, we plan to each develop our own GUI based on the same source code. This is just for learning purposes, so we will choose one GUI to submit to Canvas.