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CSci445

Program 3

Working with simlib has proven more difficult than expected, especially with regards to the lcgrand random number generator provided within simlib.c. Unfortunately, this random number generator is the reason why I could not complete this assignment completely in time. For whatever reason, it is generating the same wildly huge number during every test run of my simulation program, and I could not debug this successfully before the due date. I was in the middle of modifying the textbook's implementation of the inventory simulation to support simlib functions when I encountered this issue, and I have since not been able to resolve it, preventing my advancement with the modifications. Therefore, I can't decisively conclude anything about the differences in results between the textbook author's implementation of the inventory system and my simlib implementation for the three key performance metrics.

Despite this, I've created a Makefile for easy compilation, running, and cleaning of my simulation program. I've left many print debugging statements uncommented because this is still in the works and I'd like to eventually solve this problem with the random number generator, preferably soon. An output file will be generated after running my simulation program, but it will not contain any useful statistics. In some instances, the program runs into an infinite loop because the random number generator will keep generating 0, in which case a ctrl C is necessary to stop its execution.