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Project 9

The purpose of this program was to expand on our linked list functionalities and implement queueing utilizing the FIFO (first in first out) principle. Using array queues and node queues, it aimed to take the prior project and change it.

Designing this program was not too bad as the previous project could be used as a template. Functionality, like insertBefore/After, was actually removed and replaced with much simpler push and pop functions. In fact, most of this project was taking the previous one and modifying it to support the queueing. One thing I thought was interesting was the wrap-around queue part, where elements are moved accordingly.

Since linked lists made more sense than they did in the previous project, I did not have any conceptual issues. My problems originally came from starting the project. All that was provided was the assignment PDF. I almost emailed and asked where any provided files were but decided to be self-sufficient and scavenge the DataType files from the previous project. The header files were given in the assignment and there were minor changes from the previous project, so those could be saved too.

I designed it as best I could. Some of my functions, especially the boolean ones, were a little long winded, but got the job done. I am sure there is a shorthand way of doing the same thing, but I was more focused on clear functionality.