Hacettepe University

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Course	: BBM104
Experiment	: Programming Assignment 4
Subject	: Stack and Queue Operations
Data Due	: 10.06.2020 (23:59)
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Main Program	: b21946146.zip/src/Main.java

Problem Definition

I had to implement stack and queue structures and manipulate them according to the input files. Then create outputs.

Algorithm

For most of the functions of stack and queue, I used a temporary list to exchange elements with. I used different while and for loops for desired results. I implemented pop, top, push for stack and enqueue, dequeue, front, rear for queue. All file updates happen in the functions. At the start of main, I read stack.txt and queue.txt and create the objects, use a switch statement to determine which function to call, and at the end I close their output files.

Analysis of addOrRemove

With this command, if the number given is negative you have to remove that many numbers from the stack/queue. For both of them this would be from the front/top. If the number given is positive, you have generate that many integers and add them to the stack/queue. For stack you add to the top. For queue you add to the rear.