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CSC 139

A4 Section 02

A4-Readme

- 1) I created the input and output files as txt and was able to read the input through filereader and output as file writer.
- 2) I read the first 3 integers in the line to find the amount of pages, frames, and request. I then continued to add to the request array by reading the next integer in the line
- 3) For FIFO I created a linkedlist of integers that were in a queue max of the amount of frames, it couldn't go over the limit as it would catch the count.
 - a) It gets passed through with all the variables needed to queue, as well as a linked list.
 - b) I split it into 3 ways in which 1. It adds to the queue till the max amount of frames are filled, 2. It reads in the beginning if the number already exist in the frame, if it does it just states that. 3. Once its full it does replacing in order from 0 to frame size, once max it resets back to 0 and repeats.
- 4) For LRU I used a similar approach but instead added a count in the "Pages" class, and made a linked list out of it.
 - a) The count increases every time it goes through a page request, which is set in its own method.
 - b) It compares the same way it did for FIFO but instead of doing a replacing based on the first one that arrived, it based it off the highest count of the timeStamp. Each linkedlist element has a timestamp and it calculates that off its own method.

Issue: There was an issue when trying to compare the time, it didnt want to check all of the elements in the linkedlist, so it would skip out entirely on one of the timestamps and it would ruin the end result