Disk Scheduling Algorithm

Objective:

To demonstrate several different disk head scheduling algorithms with a python gui.

Problem Description:

As hard disk drives are continuing to grow in size then need to gain access to the data that is contained on them is growing daily. This project was to demonstrate visually how several commonly used but different disk head scheduling algorithms decided which piece of data next to retrieve from the queue.

Requirement Analysis:

The requirements of this project were straight forward. Use the python programming language to demonstrate how the read head moves on the platter using the disk scheduling algorithms that were discussed during lecture. These algorithms were as follows:

- FIFO (First In First Out)
- SSTF (Shortest Seek Time First)
- SCAN (aka Elevator Algorithm)
- CSCAN (Circular Elevator Algorithm)
- LOOK
- CLOOK

Programming requirements were to use Python along with Tkinter for the GUI interface, and Turtle for the simulation animation.

Source Code

ece_480_project_2.py
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requests.txt
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