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CS526 Final Project Documentation

Description of data structure

- I have used Java's Priority Queue for the project assignment that stores integers of each process: id, priority, arrival time and duration. I also implemented a comparable interface and stored in another file (Process.java) so that it can decide on what basis the process needs to be ordered in the priority queue based on the priority variable.

Discussion

- **Observation:** I have noticed that when two processes have the same smallest priority, my programs will choose to process one then other. There is an instance where 7 & 4 had the same smallest priority in the queue, so my program chooses to execute 7 first then 4 because Java's Priority Queue will arbitrarily choose one process to execute first.
- The project was quite challenging for me as Java is not my primary language but I have learned a lot from googling syntax and also reading that Java documentation on oracle. Video resources on YouTube also helped me understand how Java's Priority Queue work.