Contributions:
Manan Aggarwal (2022273) – shared memory, queue round robin execution
Souparno Ghose (2022506) – parse user input, error handling, queue structure

SimpleSchedular Implementation(simple-shell.c):
The SimpleSchedular gets input from SimpleShell with the submit <executable> [priority1-4] command. Which then runs the program when we run “schedular” in the shell. This program uses shared memory to communicate between the shell and the schedular. There are 4 priority queues where lower priority is prefered, if there are multiple process in the same queue then all of them run in round robin until that queue is empty. After all the process have finished executing, schedular takes a break and needs to be ran again using submit command. Upon giving sigint signal the schedular executes all the programs according to the queue and prints the pid, name, execution time and wait time.

dummy_main.h
this header file is included in all the given programs, it pauses the program when it gets sigstop and continues when it gets sigcont.

Github Repo - https://github.com/Sparta9000/OS-Assignment-3