HW #4

Part1:

- First-Come First Served (FCFS)
 - Could result in starvation
- All long jobs comes before short jobs; all jobs behind large one could potentially starve
 - High turnaround time (Tfinish Tstart)
- 2. Shortest Job First (SJF)(Non-Preemptive)
 - Starving can occur to long jobs
- When there are a lot of short jobs that keep coming in, then the long jobs will just starve while short jobs are being run.
- 3. Shortest Remaining Time First (SRTF) (Preemptive)
 - Like shortest job first, starvation can occur to long jobs
- If jobs with small run times are continuatlly add, the larger job will be starved
- 4. Round Robin(RR)
- Starvation does not occur in round robin because all jobs have equal quantum time to run
- 5. Priority
 - Starvation occures on low-priority jobs
 - Solution is "Age" process
- $\,$ -> Age jobs on low priorities so they have high prescedence as they wait longer

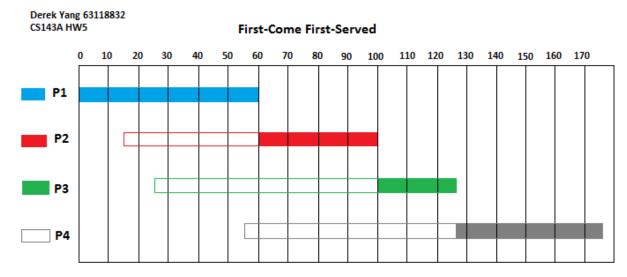
Submitter: dereky1(Yang, Derek)

Part2: pthread_compute.c

```
X
 dereky1@odin:~/143a/hw/hw5
                                                                                Script started on Thu 03 Nov 2016 01:57:29 AM PDT
 []0;dereky1@odin:~/143a/hw/hw5^G^[[?1034hdereky1@odin 01:57:29 ~/143a/hw/hw5 ^M^M
make: `search' is up to date.^M
 []0;dereky1@odin:~/143a/hw/hw5^Gdereky1@odin 01:57:35 ~/143a/hw/hw5 ^M^M
$ make clean^
/bin/rm -rf search.o que.o search^
 []0;dereky1@odin:~/143a/hw/hw5^Gdereky1@odin 01:57:40 ~/143a/hw/hw5 ^M^M
gcc -c -std=c99 -ggdb search.c^l
gcc -c -std=c99 -ggdb que.c^
gcc -std=c99 -ggdb search.o que.o -lpthread -o search^
 []0;dereky1@odin:~/143a/hw/hw5^Gdereky1@odin 01:57:43 ~/143a/hw/hw5 ^M^M
$ search hello text.tex^H^[[K^H^[[Kxt^]
Found 1 total matches of 'hello'
 []0;dereky1@odin:~/143a/hw/hw5^Gdereky1@odin 01:57:55 ~/143a/hw/hw5 ^M^M
\ make test^H^[[K^H^[[K^H^[[K^H^[[K^H^[[K^H^[[K^H^[[K^H^[[K^H^[[K^H^[[K^H^[K^G^G^G^Gmake test^]]]]]]]]]])]}
search the /usr/share/dict/linux.words^M
Found 7485 total matches of 'the'
grep -c the /usr/share/dict/linux.words^M
5931"
 []0;dereky1@odin:~/143a/hw/hw5^Gdereky1@odin 01:58:13 ~/143a/hw/hw5 ^M^M
$ exit^
exit^M
Script done on Thu 03 Nov 2016 01:58:19 AM PDT
                                                                    1,1
                                                                                   A11
```

Part3:

91.25, 47.5 87.5, 43.75 83.75, 40 116.25, 72.5 87.5, 43.75 1. First-Come First-Served (FCFS)

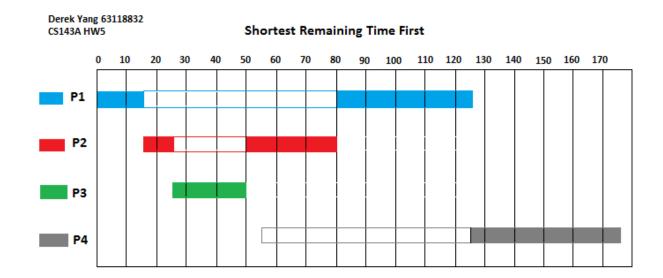


2. Shortest Job First (SJF) (Non-preemptive)

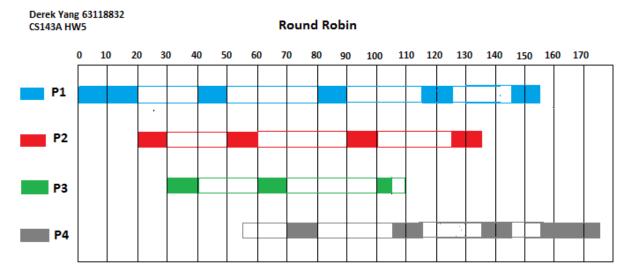


3. Shortest Remaining Time First (SRTF) (Preemptive)

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4. Round Robin (RR) (Time Quantum = 10)



5. Priority

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