Report:

Round Robin

```
a.out  cnf.cpp  fa2022  hw53.cpp  ls.txt  os  server.c  server_tcp.c  struct.c
jrs0700@cell05-cse:~$ cd os/Project
jrs0700@cell05-cse:~/os/Project$ ls
assignment3.txt  cpu.h      fcfs    list.h     priority     pri-schedule.txt  rr           schedule_priority.c    schedule_rr.c  schedule_sjf.c  task.h
CPU.c            driver.c  list.c  Makefile  priority_rr  README            schedule_fcfs.c  schedule_priority_rr.c  schedulers.h   sjf
jrs0700@cell05-cse:~/os/Project$ make rr
gcc -Wall -c driver.c
gcc -Wall -c list.c
gcc -Wall -c CPU.c
gcc -Wall -c schedule_rr.c
gcc -Wall -o rr driver.o schedule_rr.o list.o CPU.o
jrs0700@cell05-cse:~/os/Project$ ./rr assignment3.txt
scheduling 5 processes
quantum: 10
 Running task = [P0] [100] [75] for 10 units.
Running task = [p1] [25] [10] for 10 units.
Running task = [p2] [25] [25] for 10 units.
Running task = [P0] [100] [75] for 10 units.
Running task = [p2] [25] [25] for 10 units.
Running task = [P0] [100] [75] for 10 units.
Running task = [p2] [25] [25] for 5 units.
Running task = [p3] [100] [15] for 10 units.
Running task = [P0] [100] [75] for 10 units.
Running task = [p3] [100] [15] for 5 units.
Running task = [p4] [1] [35] for 10 units.
Running task = [P0] [100] [75] for 10 units.
Running task = [p4] [1] [35] for 10 units.
Running task = [P0] [100] [75] for 10 units.
Running task = [p4] [1] [35] for 10 units.
Running task = [P0] [100] [75] for 10 units.
Running task = [p4] [1] [35] for 5 units.
Running task = [P0] [100] [75] for 5 units.


Report
Process        Completion Time      Turn Around Time       Waiting Time
P0             160                  160                    85
p1             20                   10                     0
p2             65                   45                     20
p3             90                   30                     15
p4             155                  65                     30
Total Waiting Time: 150
Average Waiting Time: 30
jrs0700@cell05-cse:~/os/Project$ make sjf
gcc -Wall -c schedule_sjf.c
gcc -Wall -o sjf driver.o schedule_sjf.o list.o CPU.o
jrs0700@cell05-cse:~/os/Project$ ./sjf assignment3.txt
scheduling 5 processes
Running task = [p4] [1] [35] for 35 units.
Running task = [p3] [100] [15] for 15 units.
Running task = [p2] [25] [25] for 25 units.
Running task = [p1] [25] [10] for 10 units.
```

SJF and FCFS

```
p2             65                   45                     20
p3             90                   30                     15
p4             155                  65                     30
Total Waiting Time: 150
Average Waiting Time: 30
jrs0700@cell05-cse:~/os/Project$ make sjf
gcc -Wall -c schedule_sjf.c
gcc -Wall -o sjf driver.o schedule_sjf.o list.o CPU.o
jrs0700@cell05-cse:~/os/Project$ ./sjf assignment3.txt
scheduling 5 processes
Running task = [p4] [1] [35] for 35 units.
Running task = [p3] [100] [15] for 15 units.
Running task = [p2] [25] [25] for 25 units.
Running task = [p1] [25] [10] for 10 units.
Running task = [P0] [100] [75] for 75 units.
jrs0700@cell05-cse:~/os/Project$ make fcfs
gcc -Wall -c schedule_fcfs.c
gcc -Wall -o fcfs driver.o schedule_fcfs.o list.o CPU.o
jrs0700@cell05-cse:~/os/Project$ ./fcfs assignment3.txt
scheduling 5 processes
Running task = [p4] [1] [35] for 35 units.
Running task = [p3] [100] [15] for 15 units.
Running task = [p2] [25] [25] for 25 units.
Running task = [p1] [25] [10] for 10 units.
Running task = [P0] [100] [75] for 75 units.
```

Priority

```
Average Waiting Time: 30
jrs0700@cell05-cse:~/os/Project$ make priority
gcc -Wall -c schedule_priority.c
gcc -Wall -o priority driver.o schedule_priority.o list.o CPU.o
jrs0700@cell05-cse:~/os/Project$ ./priority assignment3.txt
scheduling 5 processes
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p1] [25] [10] for 1 units.
Running task = [p2] [25] [25] for 1 units.
Running task = [p2] [25] [25] for 1 units.
Running task = [p2] [25] [25] for 1 units.
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Running task = [p2] [25] [25] for 1 units.
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Running task = [p2] [25] [25] for 1 units.
Running task = [p2] [25] [25] for 1 units.
Running task = [p2] [25] [25] for 1 units.
Running task = [p2] [25] [25] for 1 units.
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Running task = [p4] [1] [35] for 1 units.
Running task = [p4] [1] [35] for 1 units.
Running task = [p4] [1] [35] for 1 units.
Running task = [p4] [1] [35] for 1 units.
Running task = [p4] [1] [35] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
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Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [P0] [100] [75] for 1 units.
Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.
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Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.
Running task = [p3] [100] [15] for 1 units.

Report
Process         Completion Time     Turn Around Time       Waiting Time
p4              125                 35                     0
p3              160                 100                    85
p2              45                  25                     0
p1              20                  10                     0
P0              145                 145                    70
Total Waiting Time: 155
Average Waiting Time: 31
jrs0700@cell05-cse:~/os/Project$
```