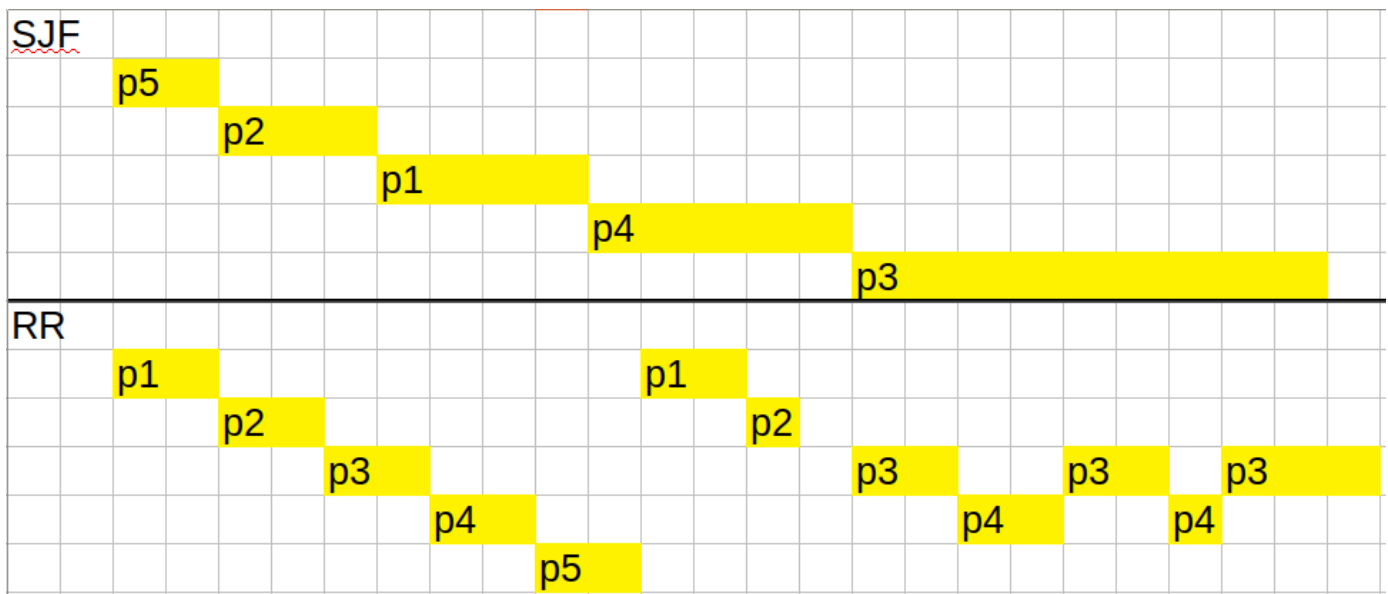# Introduction to Operating Systems (CS-GY6233) Fall 2020 Assignment 8

1)

a)

b) turnaround time

SJF

- P1: 9
- P2: 5
- P3: 23
- P4: 14
- P5: 2

RR

- P1: 12
- P2: 13
- P3: 24

- P4: 21
- P5: 10

c) waiting time

SJF

- P1: 5
- P2: 2
- P3: 14
- P4: 9
- P5: 0

RR

- P1: 8
- P2: 10
- P3: 15
- P4: 16
- P5: 8

d)

SJF

2)

a)

4999-2150+4999-230=7618

b)

4760-2150+4760-230+2074-230=8984

3)

- Did the function call to set the contention scope succeed?
  - No.

- Does Linux allow process contention scope?
  - No.

```
y56@s5ug8mar1820: ~/os2020fallcsgy6233/lab8

y56:~/os2020fallcsgy6233/lab8$ pwd
/home/y56/os2020fallcsgy6233/lab8
y56:~/os2020fallcsgy6233/lab8$ ls
lab8.c   lab8.out   README.md
y56:~/os2020fallcsgy6233/lab8$ gcc -std=c99 -Wall -Wextra -pedantic -o lab8.out ./lab8.c -pthread
y56:~/os2020fallcsgy6233/lab8$ ./lab8.out
checking the default scope.......

PTHREAD_SCOPE_SYSTEM

setting the contention scope to PTHREAD_SCOPE_PROCESS
checking the scope again.......

PTHREAD_SCOPE_SYSTEM

y56:~/os2020fallcsgy6233/lab8$
```