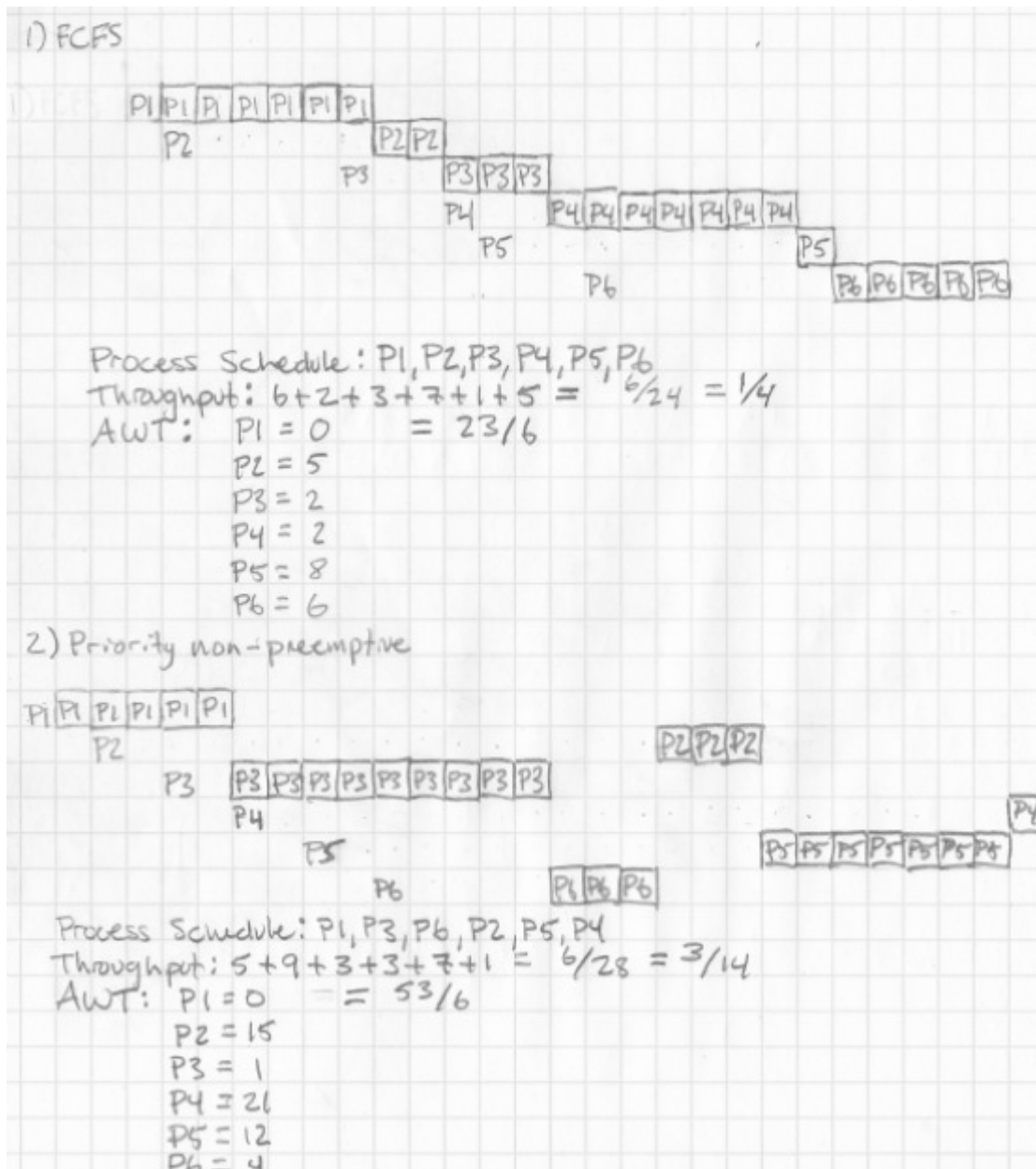# Chris Park CSCD340 Lab 7

1) FCFS
Process Schedule: P1, P2, P3, P4, P5, P6
Throughput: 6 + 2 + 3 + 7 + 1 + 5 = 6/24 = 1 / 4
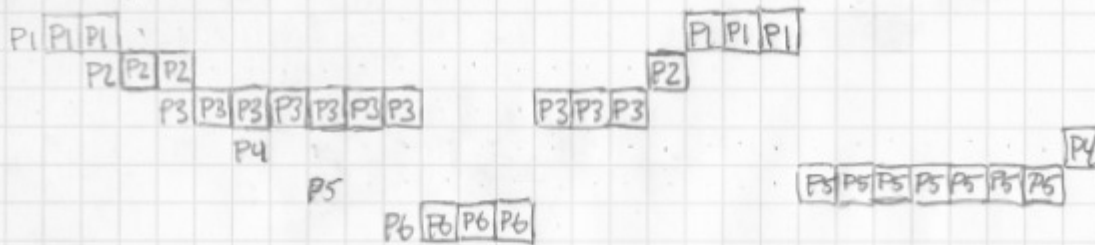AWT: 23/6

2) Priority non-preemptive
Process Schedule: P1, P3, P6, P2, P5, P4
Throughput: 5 + 9 + 3 + 3 + 7 + 1 = 6/28 = 3/14
AWT: 53/6

3) Priority Preemptive

P1	P1	P1

P2 P2 P2

P3 P3 P3 P3 P3 P3 P3

P4

P5

P6 P6 P6 P6

P1 P1 P1

P2

P3 P3 P3

P4

P5 P5 P5 P5 P5 P5 P5

Process Schedule: P1, P2, P3, P6, P3, P2, P1, P5, P4
Throughput: 5 + 3 + 9 + 1 + 7 + 3 = 6/28 = 3/14
AWT: P1 = 15   = 63/6
     P2 = 12
     P3 = 3
     P4 = 21
     P5 = 12
     P6 = 0

4) SJF non preemptive

P1 P1 P1 P1 P1 P1

P2

P3   P3

P4

P5

P6

P2 P2 P2

P4 P4 P4 P4 P4 P4 P4

P6 P6 P6 P6 P6

P5 P5 P5 P5 P5 P5 P5 P5 P5

Process Schedule: P1, P3, P2, P4, P6, P5
Throughput: 5 + 3 + 1 + 7 + 9 + 5 = 6/30 = 1/5
AWT: P1 = 0   P5 = 13
     P2 = 4   P6 = 6   = 27/6
     P3 = 1
     P4 = 3

---

3) Priority preemptive
Process Schedule: P1, P2, P3, P6, P3, P2, P1, P5, P4
Throughput: 5 + 3 + 9 + 1 + 7 + 3 = 6/28 = 3/14
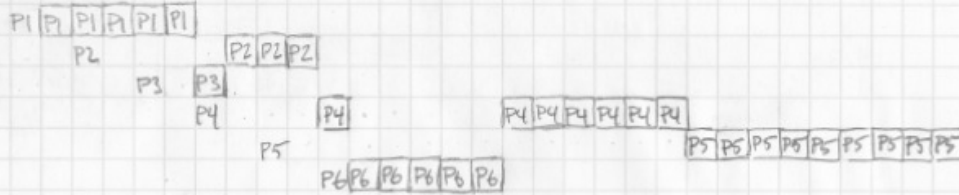AWT: 63/6

4) SJF non-preemptive
Process Schedule: P1, P3, P2, P4, P6, P5
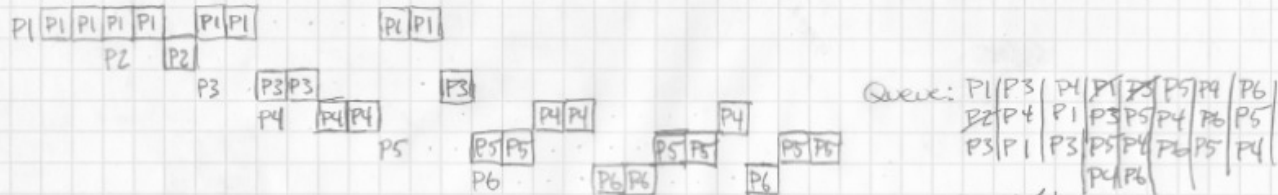Throughput: 5 + 3 + 1 + 7 + 9 + 5 = 6/30 = 1 / 5
AWT: 27/6

5) SJF preemptive

Process Schedule: P1, P3, P2, P4, P6, P4, P5
Throughput: $5+3+1+7+9+5 = 6/30 = 1/5$
AWT:
P1 = 0   P4 = 8
P2 = 4   P5 = 13   = 26/6   = $13\frac{}{3}$
P3 = 1   P6 = 0

6) RR Quantum of 2

Queue:
```
P1 P3  P4 P1 P3 P5 P4  P6
P2 P4  P1 P3 P5 P4 P6  P5
P3 P1  P3 P5 P4 P6 P5  P4
         P4 P6
P5 P4 P6
P4 P6 P5
P6 P5
```

Process Schedule: P1, P2, P1, P3, P4, P1, P3, P5, P4, P6, P5, P4, P6, P5
Throughput: $8+1+3+5+6+3 = 6/26 = 3/13$
AWT:
P1 = 5
P2 = 1
P3 = 5   = 35/6
P4 = 10
P5 = 8
P6 = 6

5) SJF preemptive
Process Schedule: P1, P3, P2, P4, P6, P4, P5
Throughput: 5 + 3 + 1 + 7 + 9 + 5 = 6/30 = 1 / 5
AWT: 13/3

6) RR Quantum of 2
Process Schedule: P1, P2, P1, P3, P4, P1, P3, P5, P4, P6, P5, P4, P6, P5
Throughput: 3/13
AWT: 35/6