

Lab Five

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1 PROBLEM ONE

a.

FCFS: 1 1 1 1 1 1 1 1 1 1 2 3 3 4 5 5 5 5

SJF: 2 4 3 3 5 5 5 5 5 1 1 1 1 1 1 1 1 1

nonpreemptive priority: 2 5 5 5 5 5 1 1 1 1 1 1 1 1 1 3 3 4

RR Q=1: 1 2 3 4 5 1 3 5 1 5 1 5 1 5 1 1 1 1

b. Turnaround time:

FCFS: P1=10, P2=11, P3=13, P4=14, P5=19

SJF: P1=19, P2=1, P3=4, P4=2, P5=9

prio.: P1=16, P2=1, P3=18, P4=19, P5=6

RR: P1=19, P2=2, P3=7, P4=4, P5=14

c. Waiting time:

FCFS: P1=0, P2=10, P3=11, P4=13, P5=14

SJF: P1=9, P2=0, P3=2, P4=1, P5=4

prio.: P1=6, P2=0, P3=16, P4=18, P5=1

RR: P1=9, P2=1, P3=5, P4=3, P5=9

d. Shortest job first results in the shortest average waiting time for all processes.