

Carlo Quitorio

CSCI 114 Practice 4

4)

FIFO

Task	Length	Arrival Time	Completion Time	Response Time
0	85	0	85	85
1	30	10	115	105
2	35	15	150	135
3	20	80	170	90
4	50	85	220	135

Avg: 110 ms

RR

Task	Length	Arrival Time	Completion Time	Response Time
0	85	0	220	220
1	30	10	80	70
2	35	15	125	110
3	20	80	145	65
4	50	85	215	130

Avg: 119 ms

SJF

Task	Length	Arrival Time	Completion Time	Response Time
0	85	0	220	220
1	30	10	40	30
2	35	15	75	60
3	20	80	100	20
4	50	85	150	65

Avg: 79 ms

8) Arrival rate: 1000 tasks/sec

Service rate = $1/5$

Response time: $1/(\text{arrival rate} * \text{service rate})$

$$R = 1/((1/5) * 1000)$$

$$R = 5/1000$$

$$R = 0.005 \text{ sec}$$

13 C) A: 100 ms

B: 200 ms

C: 300 ms