10.10.23

FCFS and RR Process-Scheduling

The average waiting times were found by summing-up all the waiting times and dividing by the number of processes. The shorterst waiting time is 0 if you count that as waiting, otherwise its T2 in both cases with a waiting time of 1.

FCFS												T6-10 Arrived																															
Time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Process	T1	T2		T3				T4						T5								T6								T7						T8				T9		T10	

Waiting times	
T1	0
T2	1
T3	2
T4	6
T5	12
T6	9
T7	17
T8	23
T9	27
T10	29

Average waiting time = 12.6

Longest waiting time: T10, 29

Shortest waiting time: T1, 0

Process	BurstTime	Arrival Time	Process	BurstTime	Arrival Time
$T1$	1	0	$T6$	8	11
$T2$	2	0	$T7$	6	11
$T3$	4	0	$T8$	4	11
$T4$	6	0	$T9$	2	11
$T5$	8	0	$T10$	1	11

RR	Time quantum = 3											T6-10 Arrived																															
Time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Process	T1	T2		T3			T4			T5			T3	T4			T6			T7			T8			T9		T10	T5			T6			T7			T8	T5		T6		

Waiting times	
T1	0
T2	1
T3	9
T4	9
T5	31
T6	22
T7	19
T8	22
T9	13
T10	15

Average waiting time = 14.1

Longest waiting time: T5, 31

Shortest waiting time: T1, 0

Process	BurstTime	Arrival Time	Process	BurstTime	Arrival Time
$T1$	1	0	$T6$	8	11
$T2$	2	0	$T7$	6	11
$T3$	4	0	$T8$	4	11
$T4$	6	0	$T9$	2	11
$T5$	8	0	$T10$	1	11