

**Round Robin gantt chart and statistics:**

Gantt Chart

A	B	C	D	E	C	D	F	G	H	I	J	E	F	G	H	E	F	
0	1	3	6	9	12	13	16	19	22	25	27	28	31	34	37	38	40	42

Job	Arrival Time	Burst Time	Finish Time	Turnaround Time	Waiting Time
A	0	1	1	1	0
B	0	2	3	3	1
C	0	4	13	13	9
D	0	6	16	16	10
E	0	8	40	40	32
F	11	8	42	31	23
G	11	6	37	26	20
H	11	4	38	27	23
I	11	2	27	16	14
J	11	1	28	17	16
Average				190 / 10 = 19	148 / 10 = 14.8

**First Come First Served gantt chart and statistics:**

Gantt Chart

A	B	C	D	E	F	G	H	I	J	
0	1	3	7	13	21	29	35	39	41	42

Job	Arrival Time	Burst Time	Finish Time	Turnaround Time	Waiting Time
A	0	1	1	1	0
B	0	2	3	3	1
C	0	4	7	7	3
D	0	6	13	13	7
E	0	8	21	21	13
F	11	8	29	18	10
G	11	6	35	24	18
H	11	4	39	28	24
I	11	2	41	30	28
J	11	1	42	31	30
Average				176 / 10 = 17.6	134 / 10 = 13.4

We have compared the FCFS algorithm with the RR algorithm, and the evidence is quite clear. FCFS is more efficient handling these tasks, it should be noted that FCFS gained a massive advantage in the order of which the tasks were submitted. In the FCFS algorithm task T10 waited the longest, and T1 waited the shortest amount of time. In the RR algorithm task T4 waited the longest, and T1 waited the shortest amount of time. As visualised by the charts above.