

Average turnaround under Round-Robin Scheduling

process	time
P_1	6
P_2	3
P_3	1
P_4	7

Quantum time = 1 unit

Processes	1	2	3	4	1	2	4	1	2	4	1	4	1	4	1	4	4	
Time		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Average turnaround time: $P_3 = 3, P_2 = 9, P_1 = 15, P_4 = 17$

Average turnaround time: $3 + 9 + 15 + 17 = \frac{44}{4} = 11$

Quantum time = 2 unit

Processes	1	2	3	4	1	2	4	1	4	4	
Time		2	4	5	7	9	10	12	14	16	17

Average turnaround time: $P_3 = 5, P_2 = 10, P_1 = 14, P_4 = 17$

Average turnaround time: $5 + 10 + 14 + 17 = \frac{46}{4} = 11.5$