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Operating Systems

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### Scheduling Processes

Time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
FCFS	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P2	P3	P3	P4	P5	P5	P5	P5	P5
SJF	P2	P4	P3	P3	P5	P5	P5	P5	P5	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1
NP-Priority	P2	P5	P5	P5	P5	P5	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P3	P3	P4
RR, Q=1	P1	P2	P3	P4	P5	P1	P3	P5	P1	P5	P1	P5	P1	P5	P1	P1	P1	P1	P1
Turnaround time	P1	P2	P3	P4	P5	avg													
FCFS	10	11	13	14	19	13.4													
SJF	19	1	4	2	9	7													
NP-Priority	16	1	18	19	6	12													
RR, Q=1	19	2	7	4	14	9.2													
Wait time	P1	P2	P3	P4	P5	avg													
FCFS	0	10	11	13	14	9.6													
SJF	9	0	1	18	16	8.8													
NP-Priority	6	0	16	18	1	8.2													
RR, Q=1	9	1	5	3	9	5.4													

Minimum average waiting time overall: Round Robin, 5.4