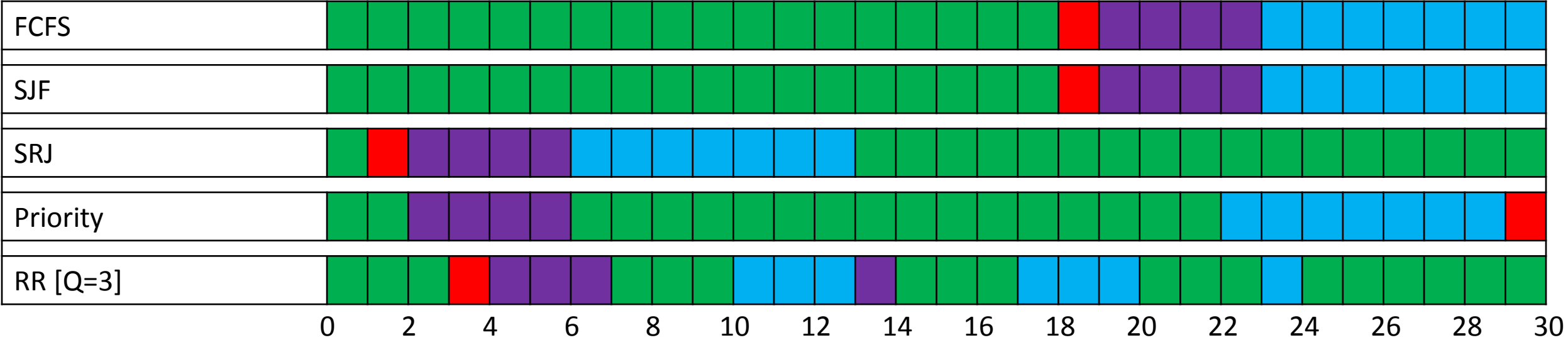
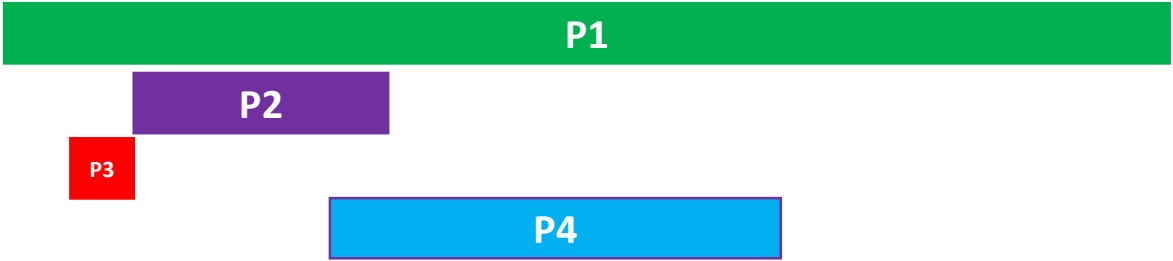


CPU Scheduling

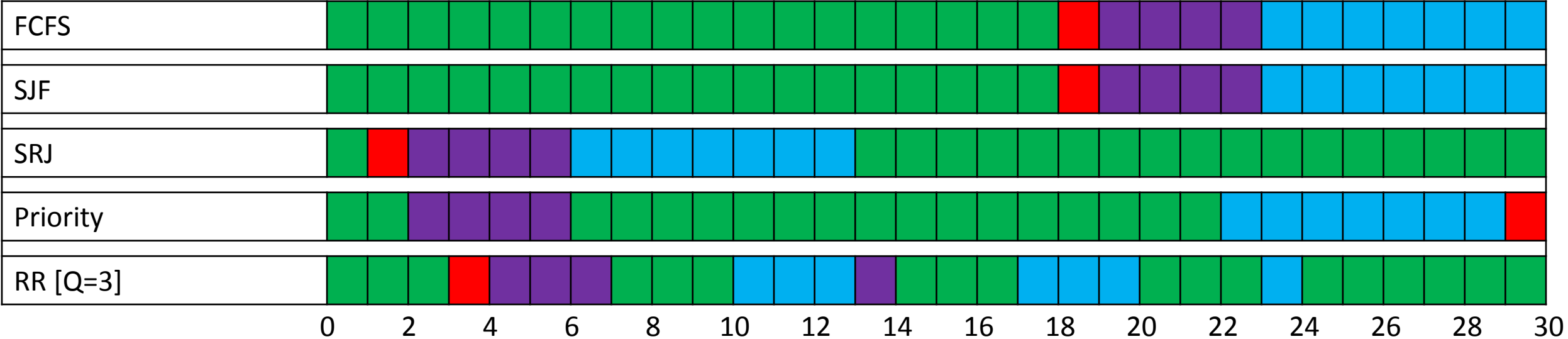
Discussion 5 – Question 5

Q5. CPU Scheduling

Process	Arrival Time	Burst Time	Priority
P1	0.0	18	2
P2	2.0	4	1
P3	1.0	1	4
P4	5.0	7	3



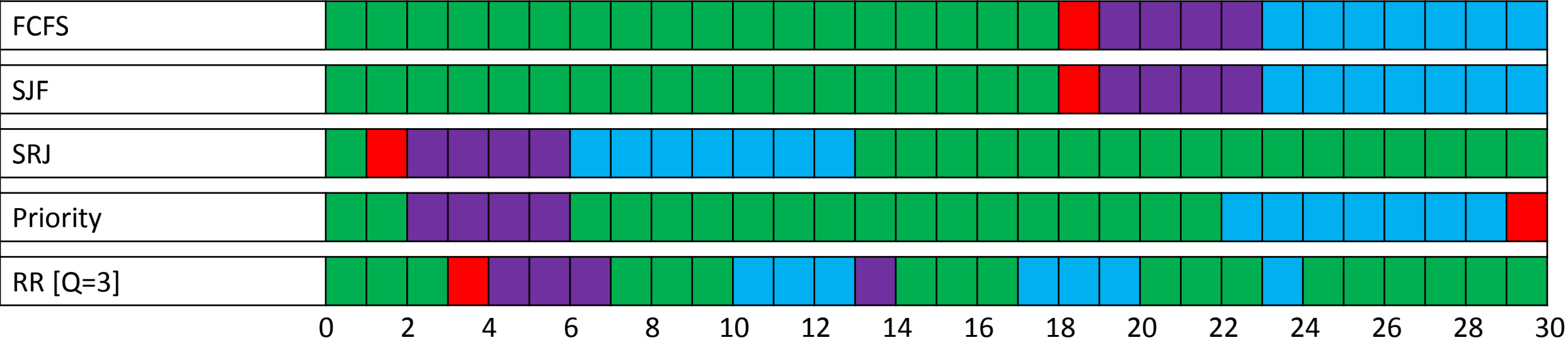
Q5. CPU Scheduling



Turnaround Time	P1 [0, 18]	P2 [2, 4]	P3 [1, 1]	P4 [5, 7]	Average
First Come First Served	18-0=18	23-2=21	19-1=18	30-5=25	20.5
Shortest Job First	18-0=18	23-2=21	19-1=18	30-5=25	20.5
Shortest Remaining First	30-0=30	6-2=4	2-1=1	13-5=8	10.75
Preemptive Priority	22-0=22	6-2=4	30-1=29	29-5=24	19.75
Round Robin (Q = 2)	30-0=30	14-2=12	4-1=3	24-5=19	16

Turnaround Time = Termination Time – Arrival Time

Q5. CPU Scheduling



Waiting Time	P1 [0, 18]	P2 [2, 4]	P3 [1, 1]	P4 [5, 7]	Average
First Come First Served	18-0-18=0	23-2-4=17	19-1-1=17	30-5-7=18	13
Shortest Job First	18-0-18=0	23-2-4=17	19-1-1=17	30-5-7=18	13
Shortest Remaining First	30-0-18=12	6-2-4=0	2-1-1=0	13-5-7=1	3.25
Preemptive Priority	22-0-18=4	6-2-4=0	30-1-1=28	29-5-7=17	12.25
Round Robin (Q = 2)	30-0-18=12	14-2-4=8	4-1-1=2	24-5-7=12	8.5

Waiting Time = Turnaround Time – Burst Time