Comparison of different Scheduling algorithms

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Process Name	Time to process	Job Submission time
P1	7	3
P2	18	23
P3	16	34
P4	12	16
P5	19	7

Calculate Turn around time, Wait time and response time for following algorithms:

1. First come first serve

2. Round robin

3. Shortest job first
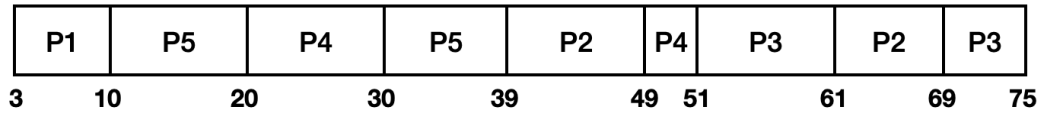
4. Longest job first

1. First come first serve

P1	P5	P4	P2	P3
3 10	29	41	59	75

Process Name	Turnaround time	Waiting Time	Response Time
P1	7	0	0
P2	36	18	18
P3	41	25	25
P4	25	13	13
P5	22	3	3
Average	26.2	11.8	11.8

2. Round robin

If we assume the time quantum is equals to 10, then

P1	P5	P4	P5	P2	P4	P3	P2	P3

3　　10　　20　　30　　39　　49　51　　61　　69　　75

Process Name	Turnaround time	Waiting Time	Response Time
P1	7	0	0
P2	46	28	16
P3	41	29	4
P4	35	23	4
P5	32	13	3
Average	32.2	18.6	5.4

3. Shortest job first

P1	P5	P4	P3	P2

3　　10　　　　29　　41　　　57　　　　75
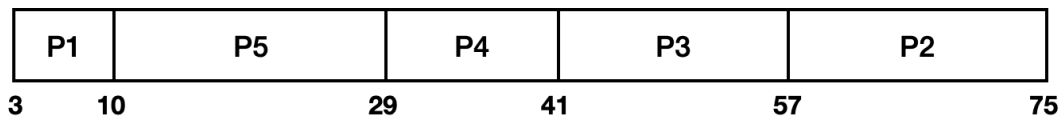
Process Name	Turnaround time	Waiting Time	Response Time
P1	7	0	0
P2	52	34	34
P3	23	7	7
P4	25	13	13
P5	22	3	3
Average	25.8	11.4	11.4

Preemptive Shortest Job First

Process Name	Turnaround time	Waiting Time	Response Time
P1	7	0	0

P2	52	34	34
P3	23	7	7
P4	12	0	0
P5	34	15	3
Average	25.6	11.2	8.8

4. Longest job first

P1	P5	P2	P3	P4

3   10   29   47   63   75
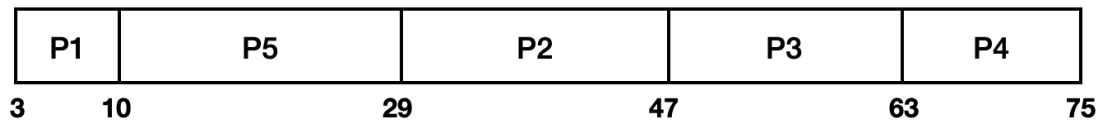
Process Name	Turnaround time	Waiting Time	Response Time
P1	7	0	0
P2	24	6	6
P3	29	13	13
P4	59	47	47
P5	22	3	3
Average	28.2	13.8	13.8