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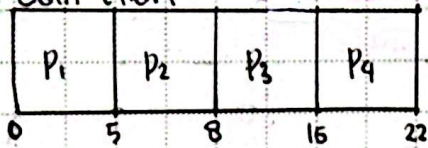
18 Maret 2025

Kelas : 1 D4 Teknik Informatika B

NRP : 3029000052

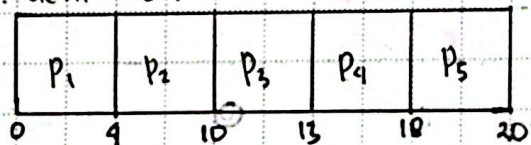
Soal 1-2. Job Scheduling FCFS

1. Gant chart :



Process	Arrival Time (AT)	Burst Time (BT)	Completion Time (CT)	Turn Around Time (TAT)	Waiting Time (WT)
P1	0	5	5	5	0
P2	1	3	8	7	4
P3	2	8	16	14	6
P4	3	6	22	19	13

2. Gant chart



Process	Arrival Time (AT)	Burst Time (BT)	Completion Time (CT)	Turn Around Time (TAT)	Waiting Time (WT)
P1	0	4	4	4	0
P2	2	6	10	8	2
P3	4	3	13	9	6
P4	6	5	18	12	7
P5	8	2	20	12	10

Soal 1-2: Shortest Job First (SJF - Non Preemptive)

1. Gant Chart

P ₁	P ₄	P ₃	P ₂
0	7	8	11
			16

Process	Arrival time (AT)	Burst time (BT)	Completion time (CT)	Turn Around time (TAT)	Waiting time (WT)
P ₁	0	7	7	7	0
P ₂	1	5	16	15	10
P ₃	2	3	11	9	6
P ₄	3	1	8	5	4

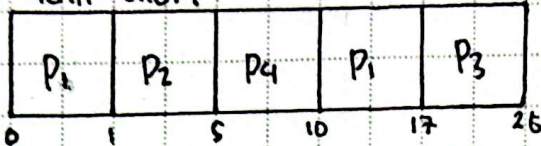
2. Gant chart

P ₁	P ₄	P ₃	P ₂
0	6	9	16
			24

Process	Arrival time (AT)	Burst time (BT)	Completion time (CT)	Turn Around time (TAT)	Waiting time (WT)
P ₁	0	6	6	6	0
P ₂	1	8	24	23	15
P ₃	2	7	16	14	7
P ₄	3	3	9	6	3

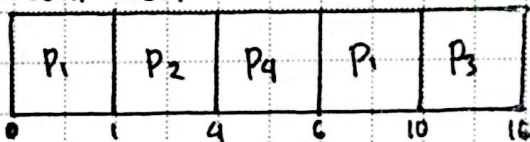
Soal 1-2. Shortest Remaining job first (SRTF - preemptive)

1. Gantt chart



Proses	Arrival Time (AT)	Burst Time (BT)	Completion Time (CT)	Turn Around Time (TAT)	Waiting Time (WT)
P ₁	0	8	17	17	9
P ₂	1	4	5	4	0
P ₃	2	9	26	24	15
P ₄	3	5	10	7	2

2. Gantt chart



Proses	Arrival Time (AT)	Burst Time (BT)	Completion Time (CT)	Turn Around Time (TAT)	Waiting Time (WT)
P ₁	0	5	10	10	5
P ₂	1	3	4	3	0
P ₃	2	6	16	14	8
P ₄	4	2	6	2	0

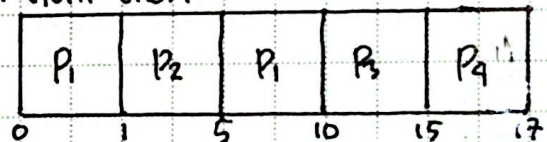
Soal 1-2. Priority scheduling (Preemptive)

1. Gant chart



Priority	Proses	Arrival Time (AT)	Burst Time (BT)	Completion Time (CT)	Turn Around Time (TAT)	Waiting Time (WT)
3	P ₁	0	8	17	17	9
1	P ₂	1	4	5	4	0
4	P ₃	2	9	26	24	15
2	P ₄	3	5	10	7	2

2. Gant chart



Priority	Proses	Arrival Time (AT)	Burst Time (BT)	Completion Time (CT)	Turn Around Time (TAT)	Waiting Time (WT)
2	P ₁	0	6	10	10	4
1	P ₂	1	4	5	4	0
3	P ₃	2	5	15	13	8
4	P ₄	3	2	17	14	12

Soal 1-2. Priority scheduling (non-preemptive)

1. Gant chart

P ₁	P ₂	P ₃	P ₄
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0 7 11 20 25

Priority	Proses	Arrival time (AT)	Burst time (BT)	Completion time (CT)	Turn Around Time (TAT)	Waiting Time (WT)
3	P ₁	0	7	7	7	0
1	P ₂	2	4	11	9	5
2	P ₃	4	9	20	16	7
4	P ₄	6	5	25	19	14

2. Gant chart

P ₁	P ₂	P ₄	P ₃
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1 6 9 15 23

Priority	Proses	Arrival time (AT)	Burst time (BT)	Completion time (CT)	Turn Around Time (TAT)	Waiting Time (WT)
2	P ₁	1	5	6	5	0
1	P ₂	2	3	9	7	4
4	P ₃	3	8	23	20	12
3	P ₄	4	6	15	11	5

Soal 1-2. Round Robin scheduling

1. Gant chart

P_1	P_2	P_3	P_4	P_1	P_2	P_4	P_2	
0	3	6	9	12	14	17	20	21

Time quantum = 3

Process	Arrival time (AT)	Burst time (BT)	Completion time (CT)	Turn Around Time (TAT)	Waiting time (WT)
P ₁	0	5	14	14	9
P ₂	1	7	21	20	13
P ₃	2	3	9	7	4
P ₄	3	6	20	17	11

2. Gant chart

P_1	P_2	P_3	P_4	P_1	P_2	P_3	P_4	P_3
0	4	8	12	16	20	21	25	27

Time quantum = 4

Process	Arrival time (AT)	Burst time (BT)	Completion time (CT)	Turn Around Time (TAT)	Waiting time (WT)
P ₁	0	8	20	20	12
P ₂	1	5	21	20	15
P ₃	2	12	31	29	17
P ₄	3	6	27	24	18