

YOGA HERMAWAN  
1J TEKNIK INFORMATIKA  
2213020004

TUGAS SISTEM OPERASI  
PENJADWALAN PROSES

PROSES	ARRIVAL TIME	BURST TIME
P1	0	13
P2	3	7
P3	6	8
P4	7	4
P5	9	3
P6	10	5
P7	13	1

1. FCFS

CPU	P1					
	0	3	6	7	9	10
RQ	P1	P2	P3	P4	P5	P6

WAKTU TUNGGU		
P1	0	0
P2	13-3	10
P3	33-6	27
P4	61-7	54
P5	93-9	84
P6	128-10	118
P7	133-13	120
Jumlah		413
RATA RATA WAKTU TUNGGU		59

2. SJF NON PREEMPTIVE

CPU	P1					
	0	3	6	7	9	10
RQ	P1 = 13	P2	P3	P4	P5	P6

WAKTU TUNGGU		
P1	0	0
P2	13-3	10
P3	14-6	8
P4	17-7	10
P5	21-9	12
P6	26-10	16
P7	33-13	20
Jumlah		76
RATA RATA WAKTU TUNGGU		10.857

### 3. SJF PREEMPTIVE

CPU	P1	P2	P2	P4	P4	P4
	0	3	6	7	9	10
RQ	P1 = 13	P2 = 7	P2 = 1	P4 = 4	P4 = 2	P4 = 1
		P1 = 10	P3 = 8	P3 = 8	P5 = 3	P5 = 3
			P1 = 10	P1 = 10	P3 = 8	P6 = 5
					P1 = 10	P3 = 8
						P1 = 10

WAKTU TUNGGU			
P1	0(28-3)	25	
P2	6-3	3	
P3	20	20	
P4	10-2	8	
P5	13-2	11	
P6	15	15	
P7	14	14	
	JUMLAH	96	
			RATA RATA WAKTU TUNGGU 76/
			13.714

	P2	P3	P4	P5	P6	P7
13	33	61	93	128	133	134
P7	P2	P3	P4	P5	P6	P7
	P3	P4	P5	P6	P7	
	P4	P5	P6	P7		
	P5	P6	P7			
	P6	P7				
	P7					

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	13	14	17	21	26	33	41
P7	P2 = 7	P2 = 7	P2 = 7	P2 = 7	P2 = 7	P2 = 7	P3 = 8
	P3 = 8	P3 = 8	P3 = 8	P3 = 8	P3 = 8	P3 = 8	
	P4 = 4	P4 = 4	P4 = 4	P6 = 5			
	P5 = 3	P5 = 3	P6 = 5				
	P6 = 5	P6 = 5					
	P7 = 1						

7 = 59

P5	P5	P7	P6	P4	P1	
11	13	14	15	20	28	30
P5 = 3	P5 = 1	P7 = 1	P6 = 5	P3 = 8	P1 = 10	
P6 = 5	P7 = 1	P6 = 5	P3 = 8	P1 = 10		
P3 = 8	P6 = 5	P3 = 8	P1 = 10			
P1 = 10	P3 = 8	P1 = 10				
	P1 = 10					

7 = 59