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ECE 3055 Quiz – April 6, 2005 CPU Scheduling

The following processes arrive for execution at the times indicated. Use preemptive scheduling for SRTF and RR. Base all decisions on the information you have at the time the decision is made. At arrival time, the burst execution time is known. For RR, assume a newly arrived process is in the ready queue just prior to its arrival time (i.e. it is in the ready queue just before a running process is stopped and added to tail of the ready queue at a time slice.)

Process		Arriva	l Time		CPU B	urst or J	Executi	ion Time	
Pl		$0.0 \mathrm{ms}$			6ms				
P2		2.0ms			$3 \mathrm{ms}$			· ·	WT = (4+5+2)4=2.75
Р3		$4.0 \mathrm{ms}$			Ims			1	WT = (T+3+7+ 2.1)
P4		8.0ms			2ms				1615
Draw a Gantt c	chart using	FCFS:						1	TT = (6+7+6+1)/4=5.75
	P	(PZ		I P3	3 P4
0 1	2	3	4	5	6	7	8	9	10 11 12
D . C		CYTE /		,					TT=(6+8+3+4)/4=5.25
Draw a Gantt c	nart using	SJF (no	preempu	on):					WT = (2+5+2)/4 = 2.25
	PI				P3		P	2	Py
0 1	2	3	4	5	6	7	8	9	10 - 11 (10+3+2+4)/4-4.75
Draw a Gantt c	chart using	SRTF:							WT= (4+1+2)/4=1.75
PI		P	2	P3	IF) (PI	P4
0 1	2	3	4	5	6	7	8	9	10 - 11 11222+1/4= 5 DS
Draw a Gantt o	chart using	RR with	time slic	ce = Ims:					WT = (5+3+1+2)/4=2.75
PIP	1 /PZ	PI	102	- P3	PI	1P2	P	1/194	P1 P4!

Fill in the table below:

	Average Turnaround Time	Average Wait Time
FCFS	5.75	2.75
SJF	5.45	2.25
(no preemption) SRTF	4.75	1.7:
(preemption) RR	5.75	2.75