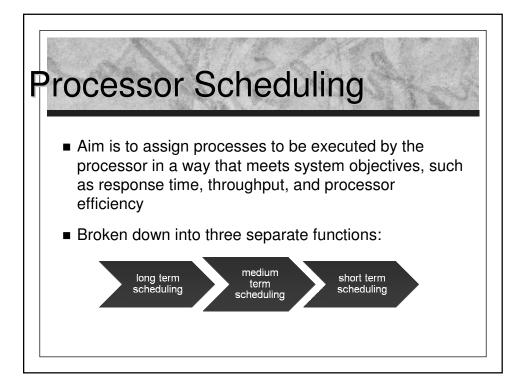
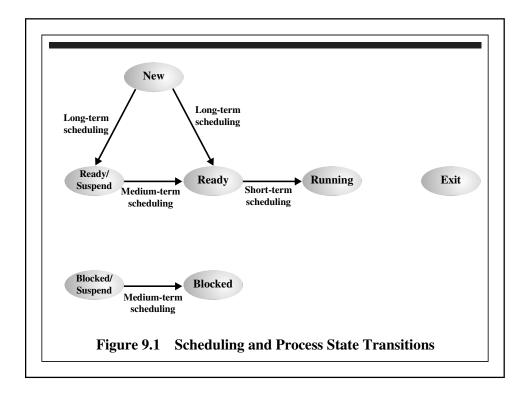
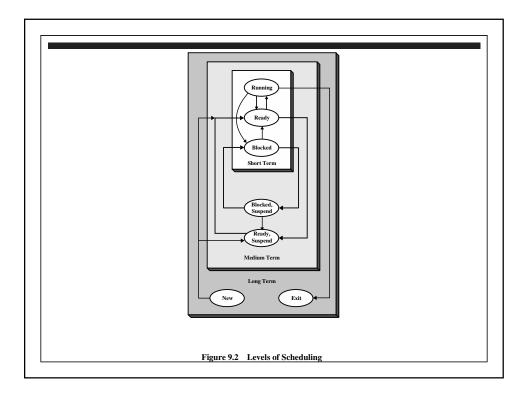
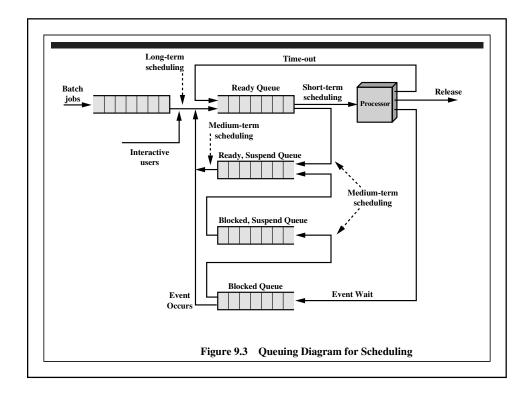


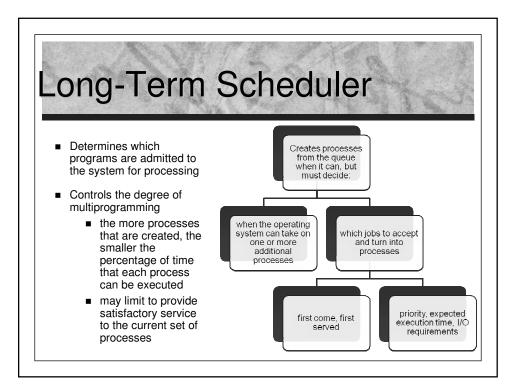
	Table 9.1
Ту	ypes of Scheduling
Long-term scheduling	The decision to add to the pool of processes to be
Medium-term scheduling	executed The decision to add to the number of processes that are partially or fully in main memory
Short-term scheduling	The decision as to which available process will be executed by the processor
I/O scheduling	The decision as to which process's pending I/O request shall be handled by an available I/O device

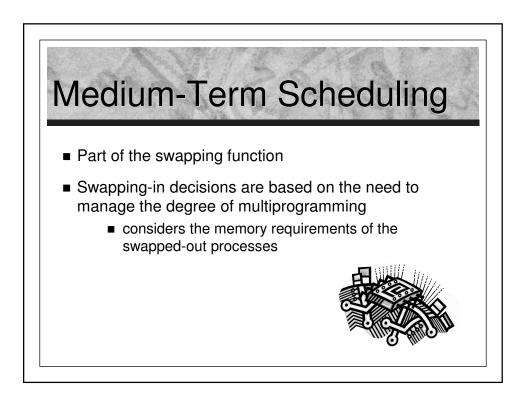


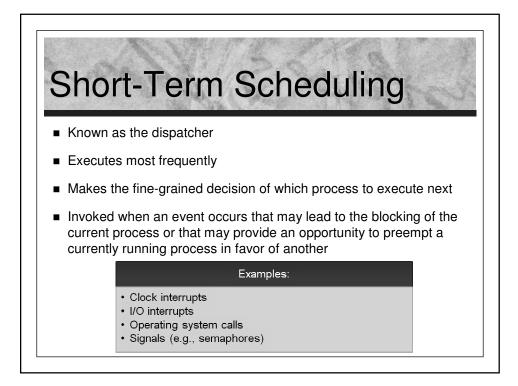


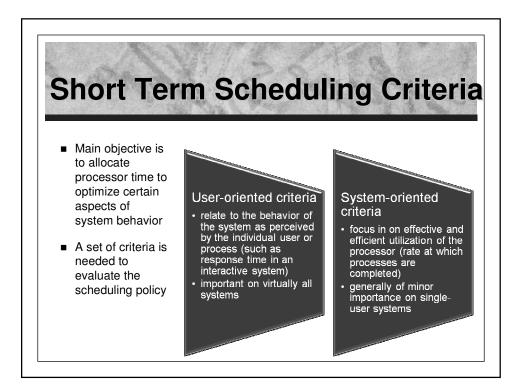


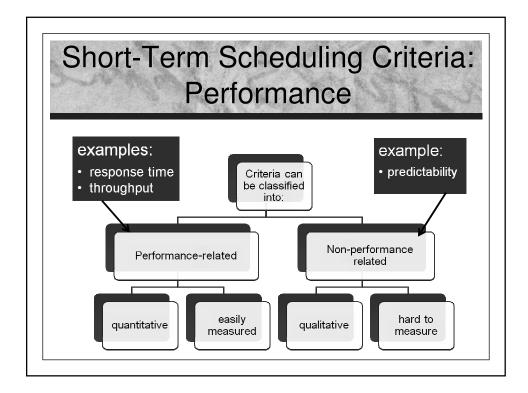


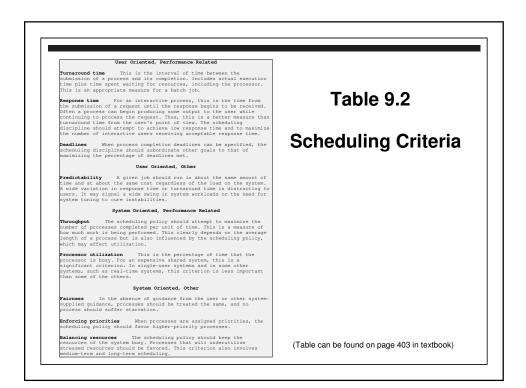


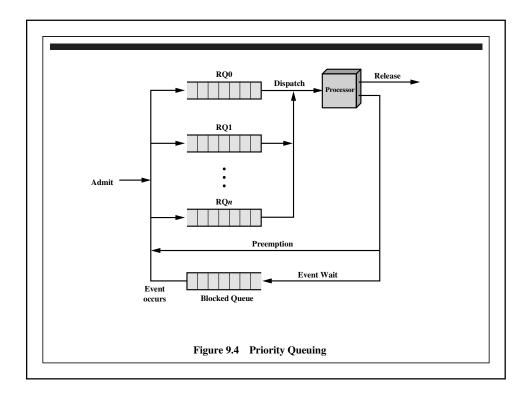




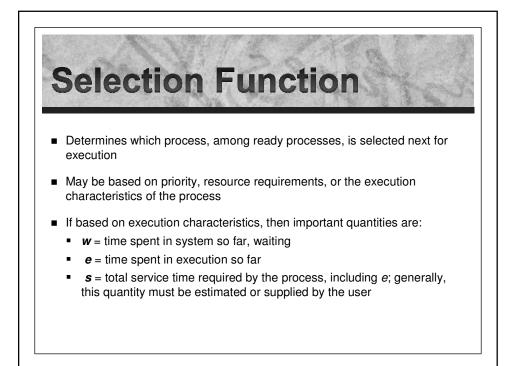


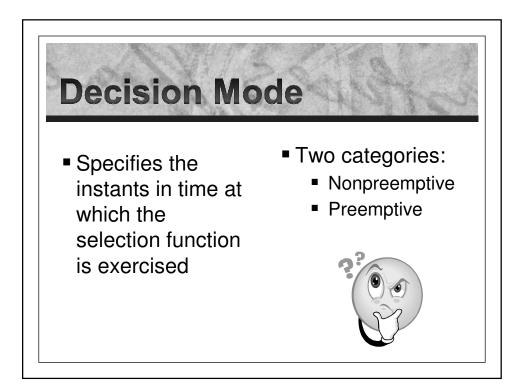


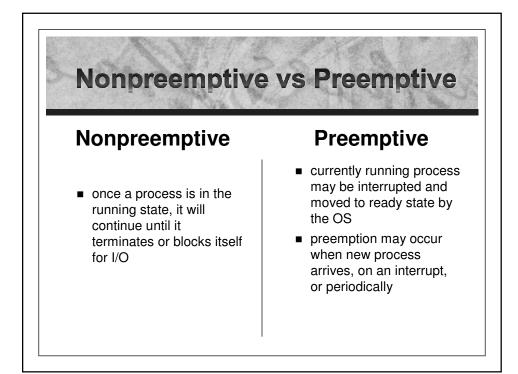




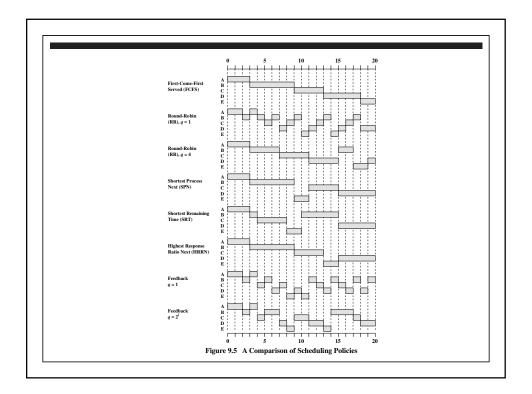
	FCFS	Round robin	SPN	SRT	HRRN	Feedback	
Selection function	max[w]	constant	min[s]	min[s – e]	$\max\left(\frac{w+s}{s}\right)$	(see text)	
Decision mode	Non- preemptive	Preemptive (at time quantum)	Non- preemptive	Preemptive (at arrival)	Non- preemptive	Preemptive (at time quantum)	Table 9.3
Through- Put	Not emphasized	May be low if quantum is too small	High	High	High	Not emphasized	Characteristi s of Various
Response time	May be high, especially if there is a large variance in process execution times	Provides good response time for short processes	Provides good response time for short processes	Provides good response time	Provides good response time	Not emphasized	Scheduling Policies
Overhead	Minimum	Minimum	Can be high	Can be high	Can be high	Can be high	
Effect on processes	Penalizes short processes; penalizes I/O bound processes	Fair treatment	Penalizes long processes	Penalizes long processes	Good balance	May favor I/O bound processes	(Table can be
Starvation	No	No	Possible	Possible	No	Possible	found on page 40 in textbook)

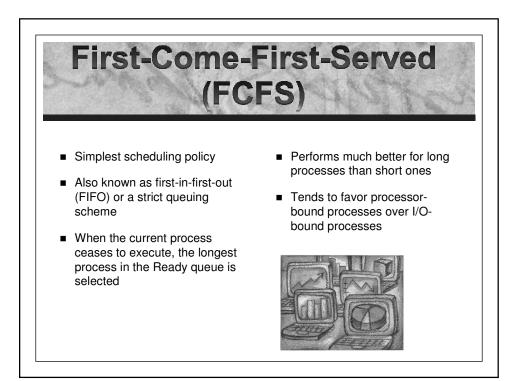


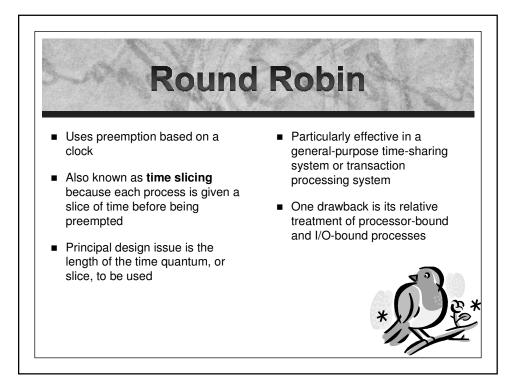


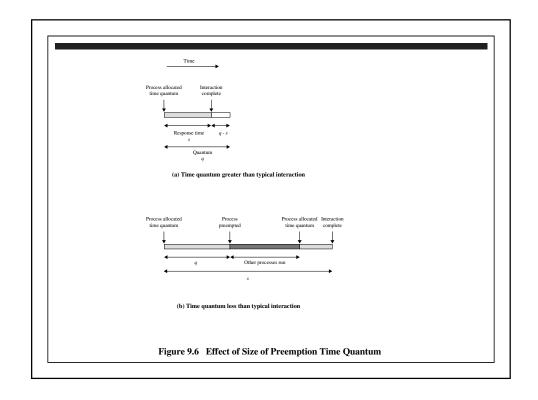


Process	Arrival Time	Service Time
А	0	3
В	2	6
С	4	4
D	6	5
Е	8	2
	Table 9.4 Process Scheduling Exan	nple









Process	А	В	С	D	Е	1	
Arrival Time	0	2	4	6	8	1	
Service Time (T_s)	3	6	4	5	2	Mean	
			CFS				
Finish Time	3	9	13	18	20		
Turnaround Time (T_r)	3	7	9	12	12	8.60	
T_{I}/T_{S}	1.00	1.17	2.25	2.40	6.00	2.56	Table 9.5
		RR q					1 able 3.3
Finish Time	4	18	17	20	15	10.00	
Turnaround Time (T_r)	4	16	13	14	7	10.80	
T_p/T_s	1.33	2.67	3.25	2.80	3.50	2.71	
Finish Time	3	RR 4	11	20	19		A Comparison
Turnaround Time (T_r)	3	17	7	20	19	10.00	
T_r/T_s	1.00	2.5	1.75	2.80	5.50	2.71	of Scheduling
$I_p I_s$	1.00	2.3 SF		2.80	5.50	2.71	
Finish Time	3	9	15	20	11		Policies
Turnaround Time (T_r)	3	7	11	14	3	7.60	
T_{I}/T_{s}	1.00	1.17	2.75	2.80	1.50	1.84	
		SF	т				
Finish Time	3	15	8	20	10		
Turnaround Time (T_r)	3	13	4	14	2	7.20	
T_{r}/T_{s}	1.00	2.17	1.00	2.80	1.00	1.59	
		HR					
Finish Time	3	9	13	20	15		
Turnaround Time (T_r)	3	7	9	14	7	8.00	
T_{I}/T_{S}	1.00	1.17	2.25	2.80	3.5	2.14	
		FB q					
Finish Time	4	20	16	19	11	10.00	
Turnaround Time (T_r)	4	18	12	13	3	10.00	
T_p/T_s	1.33	3.00	3.00	2.60	1.5	2.29	
Disist Time	4	FB q		20	14		
Finish Time Turnaround Time (Tr)	4	17	18	20	14 6	10.60	(Table is on page 408 in textbook
Turnaround Time (T_r) T_r/T_s	1.33	2.50	3.50	2.80	3.00	2.63	(.asio io on pago ioo in toxibooli

