

Sheet scheduling

1. Consider the following set of processes, with length of the CPU burst given in milliseconds:

<i>Process</i>	<i>Arrival time</i>	<i>Burst time</i>	<i>Priority</i>
<i>P1</i>	0	60	3
<i>P2</i>	3	30	2
<i>P3</i>	4	40	1
<i>P4</i>	9	10	4

Write a C program to simulate the following CPU scheduling algorithms. Display Gantt chart showing the order of execution of each process. Compute waiting time and turnaround time for each process. Hence compute average waiting time and average turnaround time.

(i) FCFS (ii) SRTF (iii) non-preemptive priority (iv) Round-Robin (quantum = 10)

2. Write a C program to simulate the following CPU scheduling algorithms. Display Gantt chart showing the order of execution of each process. Compute waiting time and turnaround time for each process. Hence compute average waiting time and average turnaround time.

(i) SJF (ii) preemptive priority

3. Write a C program to simulate multi-level queue scheduling algorithm.

4. Write a C program to simulate multi-level feedback queue scheduling algorithm.