

Operating Systems (1401311-3)  
HW #2  
Due Date: Sunday, 20.11.1430 H

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

<u>Process</u>	<u>Arrival Time</u>	<u>Burst Time</u>
P1	0.0	4
P2	1.0	13
P3	3.0	5
P4	2.0	12
P5	4.0	3

(a) Draw the Gantt Chart and calculate the turnaround time of each process for each of the following scheduling algorithms?

- FCFS (First Come First Serve)
- RR (quantum = 3)

(b) Draw the Gantt Chart and calculate the waiting time of each process when the preemptive SJF (Short Job First) algorithm is used.

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Ethics Policy: All assignments are individual and only individual work will be accepted. Detected copies of assignments (written or programming assignments) will result in zeros for the whole group (including the student who actually solved the problem). Remember that if you cheat, you are cheating no one but yourself.