

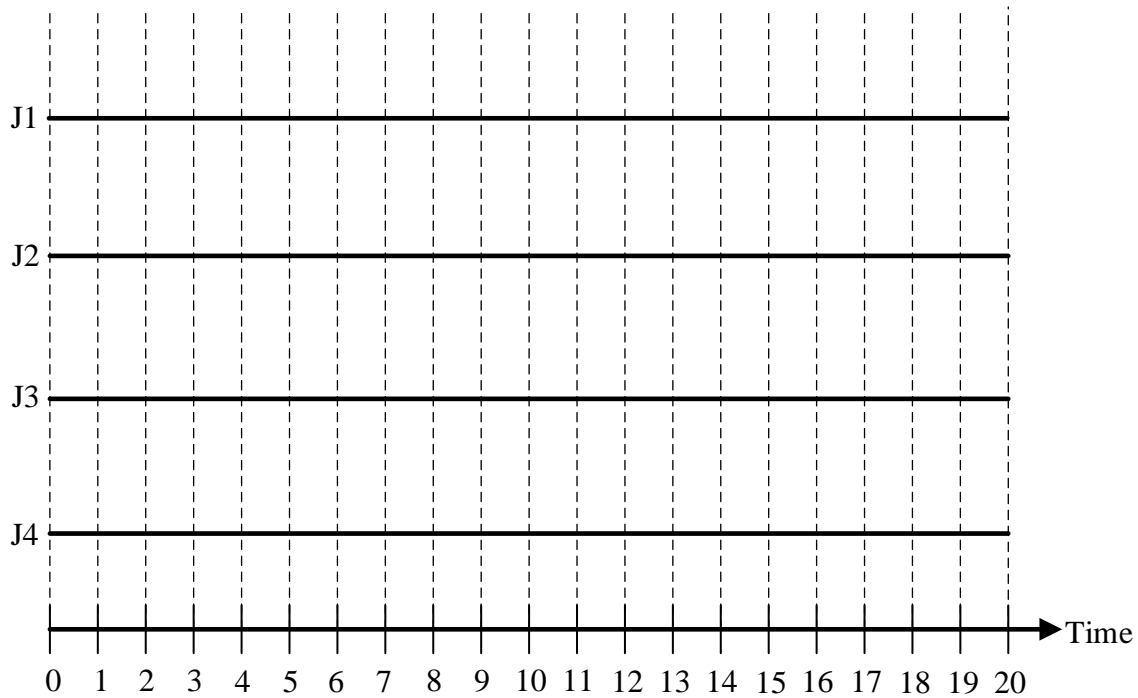
Assignment #03

Due: 10/25/2021, by 11:30pm

In the single-core real-time OS, *Earliest Deadline First (EDF)* is a very popular scheduling algorithm to schedule jobs in the job set. Assume that there are currently four jobs in the job set, and the information of these four jobs are as follows:

	Service time (C)	Relative deadline (D)	Period (T)
J1	2	16	20
J2	1	3	4
J3	2	4	5
J4	2	8	10

a) Please fill out the following job scheduling chart based on the above information (8p):



b) If the service time of J1 becomes 3, are there any jobs that miss their deadlines? If no, please calculate the overall CPU utilization; If yes, please specify which jobs and when their deadlines are missed. (2p)