

Lab Assignment: Time Management II

Background

Please complete these lab assignments on your own, in class, on the day of the lecture. Assignments are self-graded. Exam questions will be similar to assignment questions.

Priority Scheduling

Assume the following table of tasks with constant time units:

<i>Task</i>	<i>Arrives</i>	<i>Due</i>	<i>Needs</i>
A	0	5	1
B	0	20	10
C	1	4	2
D	3	10	5
E	3	8	2

Assume once a task starts, it runs until completion.

What schedule will Earliest Deadline First (EDF) produce? What about Least Slack First?

Will Rate Monotic (RM) produce a better schedule? For reference, RM runs the shortest available task first.

With any of these three scheduling methods, will any task miss its deadline? Explain why or why not.

Work Breakdown Structure

Develop a work breakdown structure for some project you are already familiar with. For example, if you know how to assemble a computer,

develop a WBS for that effort. For another example, if you know how to cook, develop a work breakdown structure for "throwing" a dinner party.

Gantt Chart

Develop a Gantt chart for the above work breakdown structure. Assign a start and stop time for each activity. Use an appropriate time scale, for example 1mm = 1 minute.

You may complete this Gantt chart manually using paper, or you may use the Projity OpenProj software. See the separate hand out for a tutorial on OpenProj.