## Homework 5

## Part 1 - Scheduling with non-preemptive EDF

1. Apply Jeffay et al.'s schedulability test for non-preemptive EDF to the following task set, in which each task is represented by $(T, C)$ :
(10 points)
$\{(5,1),(7,4),(18,4)\}$
Carry the test out until you have tested each value or until the test fails. Show your work.
2. Apply Jeffay et al.'s schedulability test for non-preemptive EDF to the following task set, in which each task is represented by ( $\mathrm{T}, \mathrm{C}$ ):
(10 points)
$\{(4,2),(6,1),(19,2)\}$
Carry the test out until you have tested each value or until the test fails. Show your work.

## Part 2 - Reading Questions

1. Under the Rate Monotonic scheduling algorithm, which of the following tasks would have the highest priority? Tasks are represented as ( $\varphi, \mathrm{T}, \mathrm{C}$ ):
2. Under the Deadline Monotonic scheduling algorithm, which of the following tasks would have the highest priority? Tasks are represented as ( $\varphi, \mathrm{T}, \mathrm{C}, \mathrm{D}$ ): (2 points) $\{(0,7,1,4),(2,9,3,8),(0,5,1,5),(1,6,1,6)\}$

## Feedback

1. How much time did you spend completing this assignment (ignoring interruptions)?
2. How much time did you spend doing the assigned reading (ignoring interruptions)?
3. Any other feedback?
