

# Homework 7

(40 points)

## Part 1 - Scheduling with RM

1. Conduct RM response time analysis on the task set  $(T, C) = (7, 3), (8, 2),$  and  $(10, 3)$ . Show your work. Is this task set schedulable by RM? (12 points)
2. Conduct RM response time analysis on the task set  $(T, C) = (4, 1), (7, 2), (19, 2),$  and  $(20, 6)$ . Show your work. Is this task set schedulable by RM? (16 points)
3. Suppose you are given a task set, and you want to test whether this task set is schedulable by RM. Which test would you apply first? Why? (4 points)

## Part 2 - Reading Questions

1. Describe the difference between a minor cycle and a major cycle. (4 points)
2. Why might the frequency of a task change? Give an example. (4 points)

---

## 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?