

Homework 4

(25 points)

Part 1 - Instructor meeting

1. Did you meet with me? (counts toward participation)
(If not, you can still do so for partial credit.)

Part 2 - Scheduling with non-preemptive EDF

1. Draw the schedule produced by using non-preemptive EDF to schedule the following task set, represented as (φ, T, C, D) : (10 points)
(0, 5, 1, 5)
(2, 8, 3, 8)
(0, 4, 1, 4)
(1, 6, 1, 6)

Part 3 - Reading Questions

Read Sections 2, 3, and 4 of the paper by Jeffay et al. Skim the proofs.

1. Explain the difference between sporadic and periodic tasks. Give an example for each that does not appear in the paper. (8 points)
2. Explain what a concrete task is. (3 points)
3. Based on what you read, what is one question that you have? (2 points)
4. Find two terms for which the notation in the paper is different from what we use in class. For each, what is the term, our notation, and the paper's notation? (2 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. How much time did you spend on the programming assignment?
4. Any other feedback?