RTAES - Theoretical and practical checkpoint

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Objectives

The goal of this lecture is to evaluate the knowledge acquired by the students in the concepts taught thus far.

1 Problem

Assume the following task set:

Task	WCET	$T_i = C_i$
τ_1	21	60
τ_2	10	40
τ_3	10	30

1. Analyse the taskset above. Is it schedulable with **Rate Monotonic**? Is it schedulable with **Earliest Deadline First**? Please justify your answer (by applying both the Utilization-based test and Response-Time Analysis).
2. Code the taskset using SCHED_FIFO as policy (please refer to previous class guides for further information).
3. Analyse the execution with the KernelShark.
4. Compare the results obtained with SimSo tool.