Artificial Intelligence 2019
Problem Sheet 2

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Notes

The homework serves as preparation for the exams. It is strongly recommended that you solve them before the given deadline - but you do not need to hand them in. Feel free to work on the problems as a group - this is even recommended.

1 Problem

Given the following processes $pX.Y$ with X being their exponential effect priority value pv and y being their id within the priority class. Use the B-scheduling Pseudo-Code from the lecture to compute the wait values in the table below. Please make in addition a drawing of the resulting schedule when executing the processes according to the wait values.

name	p0.0	p1.0	p1.1	p2.0
wait				

2 Problem

name	p0	p1	p2	p3	p4
$T_i(msec)$	50	20	40	20	15
$C_i(msec)$	5	3	4	5	1

Table 1: A set of processes with their periods T_i and computation requirements C_i.

Given the process in table 1.

- assign rate monotonic priorities to them
- check whether a feasible schedule according to theory must exist
- draw the execution of the processes with RMS for the first 25 msec