

Questions on Semaphores

Q1 (5 + 5 points): Give the pseudo code of the **wait()** and the **signal()** system calls with active (busy) waiting.

Q2 (5 points): Make a simulation of possible use of them: assume there are 4 processes, P1, P2, P3 and P4, willing to enter the critical section (c.s.). How they interact? Is this scheme working?

Q3 (5 + 5 points): Give the pseudo code of the **wait()** and the **signal()** system calls without active waiting (with no-busy waiting)

Q4 (10 points): Make a simulation of possible use of them: assume there are 4 processes, P1, P2, P3, P4, willing to enter the critical section (c.s.). How they interact? Is this scheme working?