

# Exercise Session 8

## Shared Memory

### Problem 1

Explain why every process needs to maintain a copy of the register value in the “Majority Voting” algorithm (Either Algorithm 4.2 in the book, or ABD95 algorithm from slides).

### Problem 2

Consider a system with two processes  $p_1$  and  $p_2$ . Give a register execution such that each process performs exactly two operations and the execution is

1. not safe
2. not regular but safe
3. not atomic but regular