

Exercise Session 9

Shared Memory

November 26, 2012

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

Why does the *Read* also return the timestamp on the fail-silent algorithm?

Problem 3

Explain why a timestamp is needed in the “Majority Voting” algorithm (Algorithm 4.2 in the book, or ABD95 algorithm from slides), but not in the “Read-One Write-All” algorithm (Algorithm 4.1, or the Algorithm from slide 21).