Session 4: Exercises

M2 MOSIG: Distributed Systems

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1 About broadcast algorithms

Question 1.1: *The regular reliable broadcast algorithm presented in the course relies on a perfect failure detector $\mathcal{P}$. Assume that instead of* strong accuracy, *we have a failure detector that ensures* weak accuracy. *What would be the impact for the considered algorithm?*

Question 1.2: *Still considering the reliable broadcast algorithm presented in the course, if we have a failure detector that only ensures* weak completeness, *what would be the impact for the algorithm?*

Question 1.3: *Propose a regular reliable broadcast algorithm that does not rely on a failure detector.*
Tip: *A process should assume that the sender has crashed*