

## Reliable Broadcast

**Exercise 1** What happens in the reliable broadcast and uniform reliable broadcast algorithms if the: (a) accuracy, (b) completeness property of the failure detector is violated?

**Exercise 2** Implement a reliable broadcast algorithm without using any failure detector (i.e., using only *BestEffort-Broadcast* (beb)).

**Exercise 3** Assume a majority of processes is correct. Modify the uniform reliable broadcast algorithm presented in the class, such that it *does not* use any failure detector.

**Exercise 4** The reliable broadcast algorithm presented in the class has the processes continuously fill their different buffers without emptying them. Modify it to remove unnecessary messages from the buffers: (a) *from* $[p_i]$ , and (b) *delivered*.