



## INF 4140: Models of Concurrency

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Høst 2014

Series 7

20. 10. 2014

**Topic:** Message passing

**Issued:** 20. 10. 2014

**Exercise 1** From the textbook [1]: do the exercises

- 7.6,
- 7.8 and
- 7.10.

**Exercise 2 (7.2a: Partition filter)** Implement a “partition filter” which splits an unsorted stream of natural numbers into two. The first received value is considered as “pivot” (cf. quicksort).

**Exercise 3 (7.6: readers/writers & server)** Do a server implementation for the R-W problem. Don’t forget to be specific about the interface. The solution should be based on *asynchronous* message passing

**Exercise 4 (7.8: Savings account)** Implement a savings account

**Exercise 5 (7.10: Printer)** Implement the printer.

### References

- [1] G. R. Andrews. *Foundations of Multithreaded, Parallel, and Distributed Programming*. Addison-Wesley, 2000.