Mandatory assignment 2

This is the second of four mandatory assignments in 02157 Functional programming. It is a requirement for exam participation that 3 of the 4 mandatory assignments are approved. The mandatory assignments can be solved individually or in groups of 2 or 3 students.

- Your solution should be handed in **no later than Thursday, October 6, 2016**. Submissions handed in after the deadline will face an *administrative rejection.*

- To submit you should upload a single F# file (*file*.`fsx` or *file*.`fs`) to CampusNet under Assignment 1. The file should start with full names and study numbers for all members of the group. If the group members did not contribute equally to the solution, then the role of each student must be explicitly stated.

- Your solution should be submitted as a complete program that can be uploaded to F# Interactive without encountering compilation errors. Failure to comply with that will result in an *administrative rejection of your submission.*

- Be careful that you submit the right file. A submission of a wrong file will result in an *administrative rejection of your submission.*

- Do not use imperative features, like assignments, arrays and so on. Failure to comply with that will result in an *administrative rejection of your submission.*

- **DO NOT COPY solutions** from others and **DO NOT SHARE your solution** with others. Both cases are considered as fraud and will be reported.

- You are going solve Problem 4 from the summer exam 2015 in 02157 Functional programming:
  `http://www.imm.dtu.dk/~mire/FSharpBook/OldExams/02157-2015summer.pdf`.

  A program file containing the type declarations from the problem is available under the assignment in CampusNet.

  Your solution should contain suitable tests of your functions.