Bonus assignments (Spring 2019)

There are three bonus assignments. Correctly solving all assignments will lead to a maximum of 3 bonus points for the course exam (max points for each assignment is 1). Some of the assignments are associated with certain data sets. Links to these data sets may be found on the course home page. The purpose of the assignments is to make you go beyond purely analytical pen and paper problem solving. Therefore, some programming will be involved in each of the assignments. You may use either R, Python or Matlab.

Feel free to discuss ideas for solutions. However, both coding and report writing have to be done individually. If there are strong reasons to suspect that a student has copied either the code or some part of the report from another student, zero points will be awarded.

Assignments

Assignment 1

Solve problem 65 (a-g, l-n) in chapter 7 of the course book. The associated data set is cancer. Note: Subtasks h-k (concerned with ratio estimates) are NOT part of the assignment. DEADLINE: Friday 8/2 at 23:59

Assignment 2

Solve problem 46 (a-g) in chapter 8 of the course book. The associated data set is whales. DEADLINE: 22/2 at 23:59.

Assignment 3

Solve problem 32 (a-f) in chapter 12 of the course book. The associated data set is fruitfly. DEADLINE: 8/3 at 23:59.

On the reports and code

For each of the three assignments, you should hand in one report and the source code used to solve the problem. Each report should be sent in the form of a PDF file to Olof (olofze@chalmers.se) before the deadline expires, with the source code files attached in the mail. The subject of the mail should be "MSG200/MVE155 Assignment * your name". For example, for the second

assignment: "MSG200/MVE155 Assignment 2 My Name".

The intention of these assignments in NOT that you should spend a lot of time writing the reports. However it should be clear from the report what you have done and what formulas you have used. A report with only answers will not be treated as a correct solution.

Note the following additional points regarding the reports and the code:

- Use English.

- It is VERY important that you include comments in the code that explain you methods.

- Don't forget to write your name and e-mail for further communication!