Programming assignments

ID1018

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Programming assignments and lab instances

In the run of the course the student will do a number of programming assignments (also called labs). Work on these assignments takes time, usually spent on one's own. You can expect a certain amount of supervision at the labs. The lab instances are also used to examine the assignments. For each assignment there is a lab when the student is given supervision, and another one when the assignment is examined. The detailed plan specifies the sequence of assignments.

Specification of programming assignments

The programming assignments that are to be solved are found in the folder called *Programming Assignments*. You find the folder through the course web page, and the link *Course Archive* in the top right corner. The assignments are divided into mandatory assignments (OU) and extra assignments (EU). The following assignments exist:

OU1 Temperature readings

OU2 Computations on a triangle

OU3 The shortest path

OU4 Arithmetic with character strings

OU5 A model of a polyline — the vertices of the polyline are stored in a vector

EU1 The least integer

EU2 Sorting a set

EU3 Presentation of the chess pieces

EU4 An abstract model of a polyline

Examination of the programming assignments

Examination of the programming assignments can be organised in various ways. It can be done individually or in a group.

At an individual examination the student presents the problem and its solution to a teacher on the course, comments on important details and presents the associated documents. The student confirms knowledge and understanding in a discussion with the teacher.

Examination of an assignment can also be done in a group. One member of the group presents the current problem, its solution and adjoined documents. The other students listen attentively and then give their views on the solution. They address points that were not presented, or complete the presentation in various ways, or pose questions about the problem and the solution. Possibly several group members present their programs at the same time. The examination kan be extended with a common presentation for all present groups and a joint exchange of opinions.

The present teachers decide how to proceed with the examination. They decide what groups to form, choose the students who are to present, query, and verify the solutions, and in all manners chair the examination. It is the teacher that decides if an assignment is accepted or not. Only complete solutions are passed. In addition it is required from the student to demonstrate a good understanding of both the problem and the strategies used in the solution. The code is to be clear, well formed, and well commented. Additional documents that are required shall be clear and well organised.

Grades for programming assignments

The examination of the programming assignments are part of the examination of the course. The part is defined like this: programming assignments 4.5 credits: ID1018 LAB1 (A/B/C/D/E/Fx/F). The grade is normally set at the end of the course but can also happen later in time. The grade depends on the number of completed assignments:

E all mandatory assignments

D all mandatory assignments and any one extra assignment

C all mandatory assignments and two extra assignments

B all mandatory assignments and three extra assignments

A all mandatory assignments and four extra assignments