



Felix Friedrich

Data Structures and Algorithms

Course at D-MATH (CSE) of ETH Zurich

Spring 2021

Welcome!

Course homepage

<http://lec.inf.ethz.ch/DA/2021>

The team:

Assistants

Sebastian Balzer
Christoph Grötzbach
Ivana Klasovita
Stanislav Piasecki

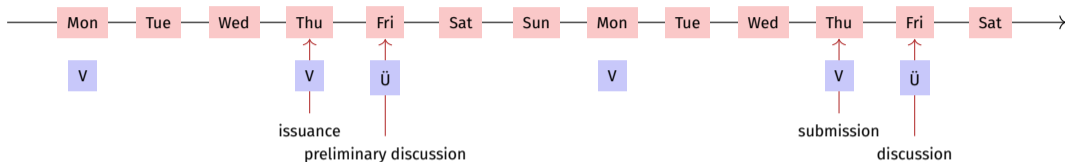
Back-Office

Aritra Dhar
Julia Chatain

Lecturer

Felix Friedrich

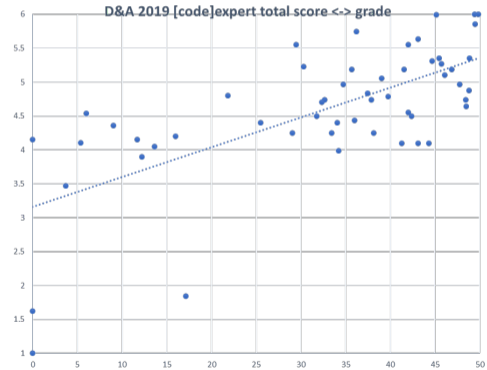
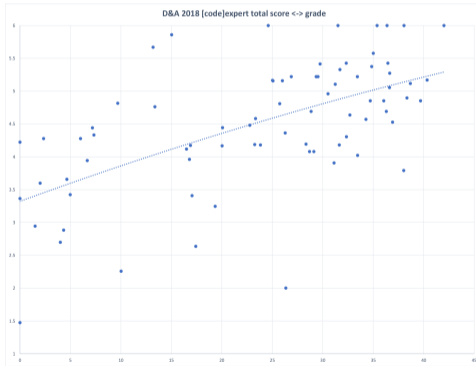
Exercises



- Exercises available at lectures.
- Preliminary discussion in the following recitation session
- Solution of the exercise until the day before the next recitation session.
- Discussion of the exercise in the next recitation session.

Exercises

- The solution of the weekly exercises is voluntary but strongly recommended.



It is so simple!

For the exercises we use an online development environment that requires only a browser, internet connection and your ETH login.

If you do not have access to a computer: there are a a lot of computers publicly accessible at ETH.

Literature

Algorithmen und Datenstrukturen, *T. Ottmann, P. Widmayer*, Spektrum-Verlag, 5. Auflage, 2011

Algorithmen - Eine Einführung, *T. Cormen, C. Leiserson, R. Rivest, C. Stein*, Oldenbourg, 2010

Introduction to Algorithms, *T. Cormen, C. Leiserson, R. Rivest, C. Stein*, 3rd ed., MIT Press, 2009

The C++ Programming Language, *B. Stroustrup*, 4th ed., Addison-Wesley, 2013.

The Art of Multiprocessor Programming, *M. Herlihy, N. Shavit*, Elsevier, 2012.

Relevant for the exam

Material for the exam comprises

- Course content (lectures, handout)
- Exercises content (exercise sheets, recitation hours)

Written exam (150 min). Examination aids: four a4 pages. No constraints regarding content and layout (text, images, single/double page, margins, font size, etc.).

The exam will most likely be performed in hybrid form (on paper and at the computer).

Offer

- Doing the weekly exercise series → bonus of maximally 0.25 of a grade point for the exam.
- The bonus is proportional to the achieved points of **specially marked bonus-task**. The full number of points corresponds to a bonus of 0.25 of a grade point.
- The **admission** to the specially marked bonus tasks can depend on the successful completion of other exercise tasks. The achieved grade bonus expires as soon as the course has been given again.

Offer (Concretely)

- 3 bonus exercises in total; 2/3 of the points suffice for the exam bonus of 0.25 marks
- You can, e.g. fully solve 2 bonus exercises, or solve 3 bonus exercises to 66% each, or ...
- Bonus exercises must be unlocked (\rightarrow experience points) by successfully completing the weekly exercises
- It is again not necessary to solve all weekly exercises completely in order to unlock a bonus exercise
- Details: exercise sessions, online exercise system (Code Expert)

Academic integrity

Rule: You submit solutions that you have written yourself and that you have understood.

We check this (partially automatically) and reserve our rights to adopt disciplinary measures.

Should there be any Problems ...

- with the course content
 - definitely attend all recitation sessions
 - ask questions there
 - and/or contact the assistant
- further problems
 - Email to chef assistant (Aritra Dhar) or lecturer (Felix Friedrich)
- We are willing to help.