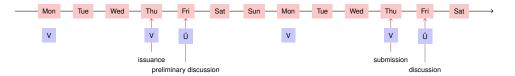
Data Structures and Algorithms

Course at D-MATH (CSE) of ETH Zurich

Felix Friedrich

FS 2018

Exercises



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

Welcome!

Course homepage

http://lec.inf.ethz.ch/DA/2018

The team:

Chefassistent Alexander Pilz Assistenten Marija Kranjcevic

Anian Ruoss

Philippe Schlattner Friedrich Ginnold

Dozent Felix Friedrich

Exercises

■ The solution of the weekly exercises is thus voluntary but *stronly* recommended.

Lacking Resources are no Excuse!

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 (120 min). Examination aids: four A4 pages (or two sheets of 2 A4 pages double sided) either hand written or with font size minimally 11 pt.

Offer

- Doing the weekly exercise series → bonus of maximally 0.25 of a grade points 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 successul completion of other exercise tasks. The achieved grade bonus expires as soon as the course has been given again.

Academic integrity

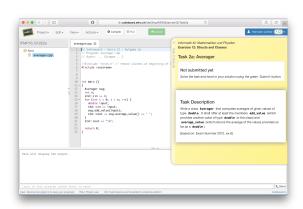
Rule: You submit solutions that you have written yourself and that you have understood.

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

Codeboard

Codeboard is an online IDE: programming in the browser!

- Bring your laptop / tablet / ...along, if available.
- You can try out examples in class without having to install any tools.

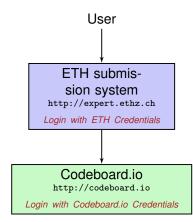


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Expert

Our exercise system consists of two independent systems that communicate with each other:

- The ETH submission system: Allows us to evaluate vour tasks.
- The online IDE: The programming environment



Exercise Registration

Codeboard.io Registration

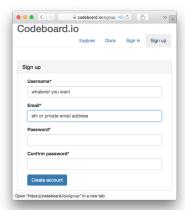
Go to http://codeboard.io and create an account, stay logged in.

Registration for exercises

Go to http://expert.ethz.ch/da2018 and inscribe for one of the exercise groups there.

Codeboard.io Registration

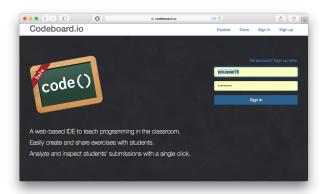
If you do not yet have an Codeboard.io account ...



- We use the online IDE Codeboard.io
- Create an account to store your progress and be able to review submissions later on
- Credentials can be chose arbitrarily Do not use the ETH password.

Codeboard.io Login

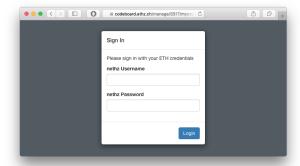
If you have an account, log in:



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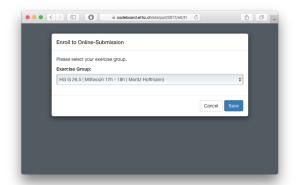
Exercise group registration I

- Visit http://expert.ethz.ch/da2018
- Log in with your nethz account.



Exercise group registration II

Register with this dialog for an exercise group.



The first exercise.

You are now registered and the first exercise is loaded. Follow the instructions in the yellow box.



The first exercise - codeboard.io login

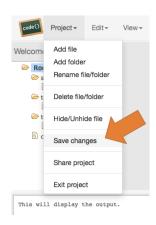
Attention If you see this message, click on Sign in now and register with you **codeboard.io** account.



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The first exercise – store progress

Attention! Store your progress regularly. So you can continue working at any different location.



In your and our Interest

Please let us know as soon as possible when you see problems, if

- the lectures are too fast, too hard, too slow,
- you have problems with the exercises ...
- you do not feel well looked after ...

Briefly: if there is anything that we can fix



Should there be any Problems ...

- with the course content
 - definitely attend all recitation sessions
 - ask questions there
 - request a meeting with the assistant
- other problems
 - Email to the head TA (Alexander Pilz) or
 - Email to lecturer (Felix Friedrich)
- We are willing to help.