Questions & Answers Functional Programming 2019/20



Administrativia

Format of the exam

Similar to the previous exams in the web

- The exam is on paper
 - Some places (wrongly) state that it is digital
- Two types of questions
 - ▶ Open (+/- 85%): explain something or write some code
 - ► Multiple choice (+/- 15%): choose one answer
- ▶ There is a maximum amount of space per question
 - Only the things you write there count
 - Don't worry! There's way more space that you need!
- You cannot bring any notes to the exam
- ▶ You have to answer in English or Dutch

Contents of the exam

Everything until today

- ► Basic types: lists, tuples, numbers
- User-defined data types
- Define functions by pattern matching
- Recursion on lists and other data types
- Write functions using accumulators
- ► Define and use higher-order functions
- Write classes and instances
- ▶ Infer and check the type of an expression

Contents of the exam

Do I need to know all the types by heart?

Writing and understanding type signatures is something you need to learn, and we need to test

- ➤ You have to know or deduce the type of simple functions such as (++), max, (==), and so forth
- ► Some higher-order functions are *very* important

In most cases you can deduce their type if you know what they do

Outcome of the exam

- You should expect your grades in about two weeks
- ▶ What happens if I fail the exam?
 - Nothing, your grade is the average with the final one
 - Remember, $T = 0.3 \times \text{midterm} + 0.7 \times \text{final}$
 - ► *Reflect* on your mistakes and *act* to fix them

Q&A session

