

Model-Based Testing

(DIT848 / DAT260)

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Lecture 6

Notes on Koen's lecture on QuickCheck

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Two exercises

- 1. Write a generator for the following recursive data type
data Expr
= Add Expr Expr
| Mul Expr Expr
| Num Int
| Var Char
- 2. Write a generator for the following type
type PersonNumber = [Int]
- NOTE: You can use the following generator
choose :: (a,a) -> Gen a

About the appended files

- Lec.hs
 - Contains the code of the running example during the lectures (testing the *merge* function)
- Gen.hs
 - Example of generator for lists and trees, and solution to the two exercises (Expr and PersonNumber)
- SpecQueue.hs
 - Specification of a queue
- Queue.hs
 - Properties and generators for the queue example