

- Please write all your Haskell functions from this exercise sheet into a single .hs-file and upload it in OLAT.
- You can use a template .hs-file that is provided on the proseminar page.
- The file should compile with ghci.
- Once the file has been uploaded, it cannot be changed or resubmitted!

### Exercise 3.1 *Live exercise*

1. Define a recursive function `euclid :: Integer -> Integer -> Integer` that implements Euclid's algorithm for calculating the greatest common divisor of two non-negative integers: if one of the two numbers is 0, the other number is the result; otherwise, the smaller number is subtracted from the larger, and the same process is then repeated.