Homework 8

Please submit your solutions via email. Please submit only ASCII text or PDFs. Every solution should be preceded by the corresponding question, like:

Qn: ...a difficult question from me...

A: ...an answer from you ... Qn + 1 ...another difficult question...

A: ...another brilliant answer from you...

Solutions will only be accepted until 30th December!

- 1. Write a program in the WHILE-language that calculates the factorial function.
- 2. What optimisations could a compiler perform when compiling a WHILE-program?
- 3. What is the main difference between the Java assembler (as processed by Jasmin) and Java Byte Code?
- 4. Parser combinators can directly be given a string as input, without the need of a lexer. What are the advantages to first lex a string and then feed a sequence of tokens as input to the parser?