



Remarks:

- Note that you have two weeks for this exercise!
- Also, there is nothing to be written on paper this time. Simply upload your code to L2P.

Exercise 1 (Parser):

(10 Points)

This task concludes our parser implementation. Previously you have shown that our *WHILE* grammar is not an *LR(0)* grammar. However if we make our parser slightly more powerful, we are able to parse it. In this task we take the steps necessary to build an *SLR(1)* parser.

- An *SLR(1)* parser takes advantage of lookahead information. Therefore, as a first step, implement the *first* and *follow set* computation for every non-terminal of a grammar. You will find the corresponding stubs in `parser.Grammar.java`.
- Implement `parser.Parser.parseSLR1(List<Symbol>)`. You can reuse the code from the *LR(0)* parser and adapt it.

Make sure you write test cases and check whether your parser behaves as expected.