## Formal Languages and Automata Theory, SS 2018. Homework 1 (due Week 14)

The **objective** is to implement an algorithm for the evaluation of an arithmetic expression. As **input**, we have a string of characters representing an arithmetic expression. As **output**, we want the result of evaluating the expression. For example:

- input data: file eval.in contains on its first line a string of characters composed by numbers ('0', '1', ..., '9'), operators ('+', '-', '\*', '/') and parentheses ('(', ')').
- output data: file eval.out contains a number representing the value obtained by evaluating the expression from the input file.
- Example: eval.in: (1+1)\*13+10/2, eval.out: 31.

## Methods:

- 1. Polish notation
- 2. Binary trees