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GS04: Tools and Environments

Lab Session 2: Context Free Grammars

The following words are correct input for a calculator that uses "Polish Notation".

+ 4 5 . + (* 4 6) (- 10 1) . * 2 (* 2 (/ 6 3)) .

Context Free Grammar

Write a context free grammar for the language

Parse Trees

For the three examples given above, give their parse trees.

Abstract Syntax Trees

Devise a representation for abstract syntax trees for the language and derive the abstract syntax trees for the words given above.

Parsing

Use CUP (see http://www2.cs.tum.edu/projects/cup/) to generate a parser for the language