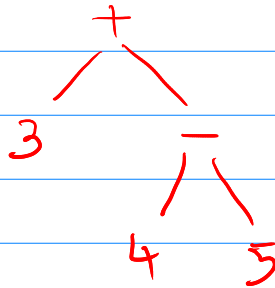


Parser



Parse tree

"3+(4-5)"



Expr ::= Number

| Expr + Expr

| Expr - Expr

| (Expr)

Book

Books

Eat

Eating

32546 + (97 - 46)

Tokenizing Rules

Lexical analyzer generator

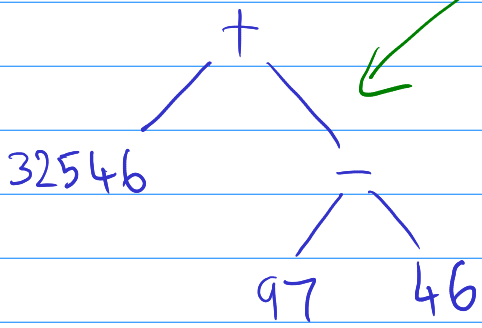
Lexical analyzer / Tokenizer

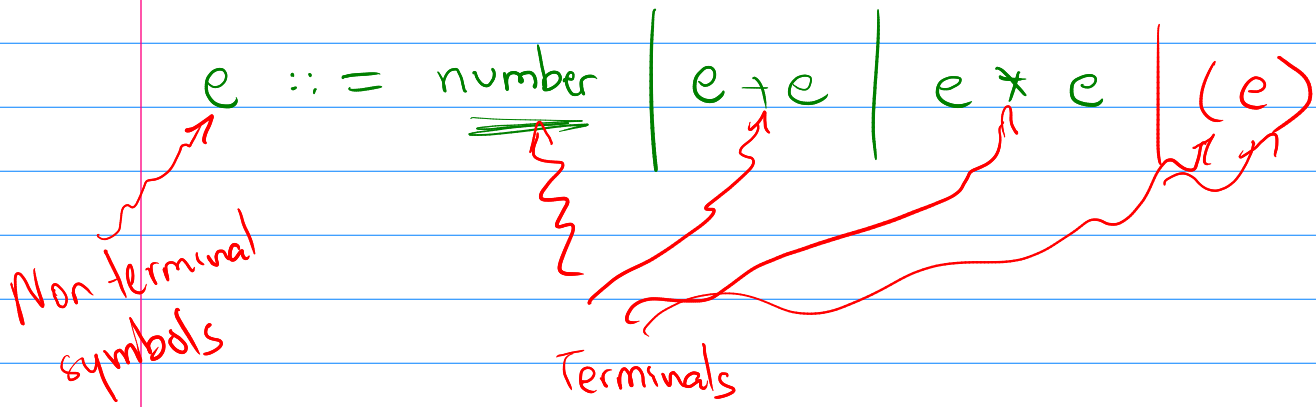
Context free grammar

Parser

Parser generators Menhir

- Int Literal 32546 Ocamllex
- Plus
- Lparenthesis
- Int Lit 97
- Minus
- Int Lit 46
- Rparen





32546 A Number is a non-empty sequence of digits from 0-9.

$[0-9]^+$ \rightarrow Int Literal n

Non-empty sequence of.

Any character b/w 0 & 9.

"+" \rightarrow Plus

"*" \rightarrow ~~Mult~~ Mult

"(" \rightarrow Lparen

")" \rightarrow Rparen