

Grammer – BNF – Yahav Yehoshua Bariah - 326295417

expr	: comp-expr ((KEYWORD:AND KEYWORD:OR) comp-expr)*
AND	: '&&'
OR	: ' '
comp-expr	: NOT comp-expr : arith-expr ((EE LT GT LTE GTE) arith-expr)*
NOT	: '!'
EE	: '=='
LT	: '<'
GT	: '>'
LTE	: '<='
GTE	: '>='
arith-expr	: term ((PLUS MINUS) term)*
PLUS	: '+'
MINUS	: '-'
term	: factor ((MUL DIV MOD) factor)*
MUL	: '*'
DIV	: '/'
MOD	: '%'
factor	: (PLUS MINUS) factor : call
call	: atom (LPAREN (expr (COMMA expr)*)? RPAREN)?
LPAREN	: '('
RPAREN	: ')'
COMMA	: ','
atom	: INT IDENTIFIER : LPAREN expr RPAREN : Defun : Lambd

INT : DIGIT*

DIGIT : 0|1|2|3|4|5|6|7|8|9

IDENTIFIER : (Char | '_')*

Char : 'a' | 'b' | 'c' | 'd' | 'e' | 'f' | 'g' | 'h' | 'i' | 'j' | 'k' | 'l' | 'm' | 'n' | 'o' | 'p' | 'q' | 'r' | 's' | 't' | 'u' | 'v' | 'w' | 'x' | 'y' | 'z' | 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | 'G' | 'H' | 'I' | 'J' | 'K' | 'L' | 'M' | 'N' | 'O' | 'P' | 'Q' | 'R' | 'S' | 'T' | 'U' | 'V' | 'W' | 'X' | 'Y' | 'Z'

Defun : KEYWORD:Defun IDENTIFIER? LPAREN (IDENTIFIER (COMMA IDENTIFIER)*)?
RPAREN ARROW expr

ARROW : '->'

Lambd : KEYWORD:Lambd IDENTIFIER ((COMMA IDENTIFIER)*)? DOT LPREAN expr RPAREN
LPREAN INT ((COMMA NUMBER)*)? RPAREN

DOT : '.'