L Grammar

Caitlynn Fey

May 21, 2024

1 Introduction

$$[Prog] \rightarrow [Stmt]^*$$

$$[Stmt] \rightarrow \begin{cases} return & [Expr] \\ let \ ident & [OptAssign] \\ ident = & [Expr] \end{cases}$$

$$[OptAssign] \rightarrow \begin{cases} = [Expr] \\ [] \end{cases}$$

$$[Expr] \rightarrow \begin{cases} [Term] \\ [BinExpr] \end{cases}$$

$$[Term] \rightarrow \begin{cases} IntLit \\ ident \\ ([Expr]) \end{cases}$$

$$[Expr] \rightarrow \begin{cases} [Expr] + [Expr] \\ [Expr] + [Expr] \\ [Expr] / [Expr] \end{cases}$$