# The Calc language

// A Command is any Expression or Statement

<Command> ::= <Expr> | <Stmt>

// Statements do not evaluate to a value

// They set a variable's value (i.e., side effect)

<Stmt> ::= "set" <Name> "=" <Expr>

// Expressions evaluate to a value

<Expr> ::= <Num> | <Name>

| "+" "(" <Expr> ")" "(" <Expr> ")"

| "-" "(" <Expr> ")" "(" <Expr> ")"

// Numbers are constant, non-negative integers

<Num> ::= string of one or more digits

// Names are variable names

<Name> ::= string of one or more alphabetic characters