# The Calc language

// A Command is any Expression or Statement

<Command> ::= <Expression> | <Statement>

// Statements do not evaluate to a value

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

<Statement> ::= "set" <Name> "=" <Expression>

// Expressions evaluate to a value

<Expression> ::= <Num> | <Name>

| "+" "(" <Expression> ")" "(" Expression> )"

| "-" "(" <Expression> ")" "(" Expression> )"

// Numbers are constant, non-negative integers

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

// Names are variable names

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