Projeto de compilador Fortran

Gramática:

**Símbolos Terminais:** 0 - 9, a – zA - Z, +, -, /, \*, (, ), =, <, <=, ==, /=, >, >=, Begin, end, if, else, else if, endif, integer, logical, real, character, print, read, write, continue, function, return, end, true, false.

**Símbolos não-Terminais:** Program, Command, Single-Command, Expression, Primary-Expression, Declaration, Single-Declaration, Identifier, Integer-Literal, Comment, Letter, Digit, Operator.

**Regras de Produção:**

Program ::= Single-Command

Command ::= Single-Command | Command eol Single Command

Single-command ::= Begin Command end

| Declaration

| if Expression else Single-Command endif

| Function Identifies (Expression) Single-Declaration return end

Expression ::= Primary-Expression

| Expression Operator Primary-Expression

Primary-Expression ::= Integer-Literal

| Identifies

| Operator Primary-Expression

| (Expression)

Declaration ::= Single-Declaration

| Declaration eol Single-Declaration

Single-Declaration ::= Integer Integer-Literal

| real Integer-Literal . Integer-Literal

| Logical Identifier

| Character Identifier

| Expression

Identifier ::= Letter

| Identifier Letter

| Identifier Digit

Integer-Literal ::= Digit | Integer-Literal Digit

Comment ::= # Graphic\* eol

Letter ::= a-zA-Z

Digit ::= 1-9

Operator ::= +| - | \* | / | \*\* | = | == | /= | > | >= | < | <=