

Gramática:

Prog -> **programa** Declara Bloco **fimprog**.

Declara -> ((**declarenum** Id (, Id)* .)* | (**declaretxt** Id (, Id)* .)*)+

Bloco -> (Cmd.)+

Cmd -> CmdLeitura | CmdEscrita | CmdExpr | CmdIf

CmdLeitura -> **leia** (Id)

CmdEscrita -> **escreva** (Texto | Id)

CmdIf -> **se** '(' Expr Op_rel Expr ')'
 entao '{ Cmd+ }'
 (**senao** '{ Cmd+ }')?

CmdExpr -> Id := Expr

Op_rel -> '<' | '>' | "<=" | ">=" | "!=" | "=="

Expr -> Expr + Termo | Expr – Termo | Expr ^ Expr | Termo

Termo -> Termo * Fator | Termo / Fator | Fator

Fator -> Num | - Num | Id | **rzqd**(Expr) | **log**(Expr) | **log2**(Expr) |
 log10(Expr) | (Expr)

Texto -> "(0..9 | a..z | A..Z | ' ')+ "

Num -> (0..9)+

Id -> (a..z | A..Z)
 (a..z | A..Z | 0..9)*