

Gramática com Expressões Regulares LL(1) da Linguagem L

S → {**Declarar**}* {**Comando**}*

Declarar → “final” “id” “<-” [“-”] const “;” | (int | boolean | byte | string) id
ListaIds“;”

ListaIds → [**Atrib**] {“,” “id” [**Atrib**]}*

Atrib → “<-” [“-”] const

Comando → **Atribuicao** | **Repeticao** | **Teste** | **Nulo** | **Leitura** | **Escrita**

Atribuicao → “id” “<-” **Expressao** “;”

Repeticao → “while” (“**Expressao**”) **Blocowhile**

Blocowhile → “begin” {**Comando**}* “endwhile” | **Comando**

Teste → “if” (“**Expressao**”) (**Blocoif** | **Comando** [**BlocoElse**])

Blocoif → “begin” {**Comando**}+ “endif” “else” “begin” {**Comando**}+ “endelse”

BlocoElse → “else” **Comando**

Nulo → “;”

Leitura → “readln” (“id”) “;”

Escrita → “write” (“**ListaExpressoes**”) “;” | “writeln” (“**ListaExpressoes**”) “;”

ListaExpressoes → **Expressao** {“,” **Expressao**}*

Expressao → **Exp** [(“=” | “!=” | “<” | “>” | “<=” | “>=”) **Exp**]

Exp → [+ | -] **T** {(“+” | “-” | “||”) **T**}*

T → **F** {(“*” | “&&” | “/”) **F**}*

F → “!” **F** | (“**Expressao**”) | [“-”] const | id