

GRAMÁTICA LABORATORIO A

Program → Decl'

Decl' → Decl Decl' | ep

Decl → VariableDecl | FunctionDecl

VariableDecl → Variable VFDECL

VFDECL → ; | (Formals) FunctionsDeclAsterisco

Variable → Type ident

Type → Type' Type_R

Type' → int | double | bool | string | ident

Type_R → [] | ep

Formals → Variable'

Variable' → Variable Variable'' | ep

Variable'' → , Variable Variable'

FunctionsDecl → FuncionsDecl' FuncionsDeclR

FunctionsDecl' → Void | Type

FunctionsDeclAsterico → Stmt

FunctionDeclAsterico | ep

FunctionsDeclR → ident (Formals)

FunctionsDeclAsterisco

Stmt → If Stmt | While Stmt | E;

ifStmt → if (Expr) Stmt ifStmt'

ifstmt' → elseStmt | ep

whileStmt → while (Expr) Stmt

E → E1E'

E' → | | E1E' | eps

E1 → E2E1'

E1' → &&E2E1' | ep

E2 → E3E2'

E2' → ==E3E2' | !=E3E2' | ep

E3 → E4E3'

E3' → <E4E3' | >E4E3' | <=E4E3' | >=E4E3' | ep

E4 → E5E4'

E4' → +E5E4' | - E5E4' | ep

E5 → E6E5'

E5' → *E6E5' | / E6E5' | %E6E5' | ep

E6 → Constant | LValue | (E) | this | New
(ident) | LValue = E | !E | -E

LValue → ident | Expr LValue'

LValue' → .ident | [Expr] | =e

Costant → intconstant | doubleconstant |
boolconstant | Stringconstant | null