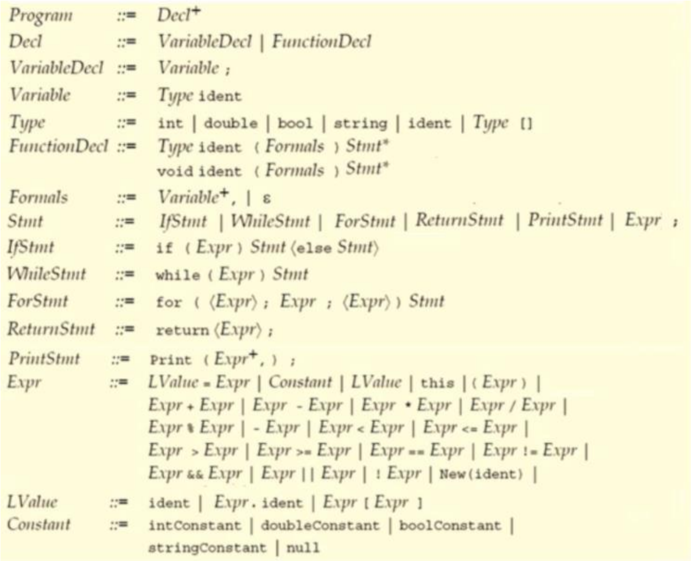

```
Program      ::=  Decl+
Decl         ::=  VariableDecl | FunctionDecl
VariableDecl ::=  Variable ;
Variable     ::=  Type ident
Type         ::=  int | double | bool | string | ident | Type []
FunctionDecl ::=  Type ident ( Formals ) Stmt*
                  void ident ( Formals ) Stmt*
Formals      ::=  Variable+, | ε
Stmt         ::=  IfStmt | WhileStmt | ForStmt | ReturnStmt | PrintStmt | Expr ;
IfStmt       ::=  if ( Expr ) Stmt ⟨else Stmt⟩
WhileStmt    ::=  while ( Expr ) Stmt
ForStmt      ::=  for ( ⟨Expr⟩ ; Expr ; ⟨Expr⟩ ) Stmt
ReturnStmt   ::=  return ⟨Expr⟩ ;
PrintStmt    ::=  Print ( Expr+, ) ;
Expr         ::=  LValue = Expr | Constant | LValue | this | ( Expr ) |
                  Expr + Expr | Expr - Expr | Expr * Expr | Expr / Expr |
                  Expr % Expr | - Expr | Expr < Expr | Expr <= Expr |
                  Expr > Expr | Expr >= Expr | Expr == Expr | Expr != Expr |
                  Expr && Expr | Expr || Expr | ! Expr | New(ident) |
LValue       ::=  ident | Expr . ident | Expr [ Expr ]
Constant     ::=  intConstant | doubleConstant | boolConstant |
                  stringConstant | null
```

[Original]

```
Program → Decl+
Decl → VariableDecl | FunctionDecl
VariableDecl → Variable ;
Variable → Type ident
Type → int | double | bool | string | ident | Type []
FunctionDecl → Type ident ( Formals ) Stmt* | void ident ( Formals ) Stmt*
Formals → Variable+ , | ε
Stmt → WhileStmt | ReturnStmt | Expr ;
WhileStmt → while ( Expr ) Stmt
ReturnStmt → return Expr ;
Expr → LValue = Expr | Constant | LValue | this | (Expr) | Expr + Expr | Expr - Expr |
           Expr * Expr | Expr / Expr | Expr % Expr | - Expr | Expr < Expr | Expr <= Expr |
            Expr > Expr | Expr >= Expr | Expr == Expr | Expr := Expr | Expr && Expr |
           Expr || Expr | : Expr | New (ident)
LValue → ident | Expr.ident | Expr [ Expr ]
Constant → intConstant | doubleConstant | boolConstant | stringConstant | null
```

[Propuesta]

```
Program → Decl Decl+
Decl+ → Decl Decl+ | ε
Decl → VariableDecl | FunctionDecl
VariableDecl → Variable ;
Variable → Type ident
Type → int Brackets | double Brackets | bool Brackets | string Brackets | ident Brackets
Brackets → [] Brackets | ε
FunctionType → Type | void

FunctionDecl → FunctionType ident ( Formals ) FunctionStmt
FunctionStmt → Stmt FunctionStmt | ε
Formals → VariableList | ε
VariableList → Variable , VariableList | Variable

Stmt → WhileStmt | ReturnStmt | Expr ;
WhileStmt → while ( Expr ) Stmt
ReturnStmt → return  Expr ;

Expr →  LValue ExprP | : Expr | Operation
ExprP → = RValue | := RValue
LValue → ident LValueP | this.ident
LValueP → [Expr] | .ident | ε
RValue → New (ident) | Expr
Constant → intConstant | doubleConstant | boolConstant | stringConstant | null

OpTerm → Constant | LValue | (Operation)
Operation →    - Operation |  (Operation) | OP1
OP1 → OpTerm OP1.1 | OP2
OP1.1  →  || OP1 | && OP1 | == OP1
OP2 → OpTerm BoolSymb OP2 | OP3
BoolSymb → < | <= | > | >=
OP3 → OpTerm OP3.1 |  OP4
OP3.1 → * OP3 | / OP3  | % OP3
OP4 → OpTerm OP4.1
OP4.1 → + OP4 | - OP4 | ε
```