Complete Grammar

```
Program::= Type IDENT ( ParamList ) Block
Block ::= <: (Declaration; | Statement;)* :>
ParamList ::= ε | NameDef (, NameDef) *
NameDef ::= Type IDENT | Type Dimension IDENT
Type ::= image | pixel | int | string | void | boolean
Declaration::= NameDef | NameDef = Expr
Expr::= ConditionalExpr | LogicalOrExpr
ConditionalExpr ::= ? Expr -> Expr , Expr
LogicalAndExpr ::= ComparisonExpr ( ( & | && ) ComparisonExpr)*
ComparisonExpr ::= PowExpr ( \langle \langle \rangle \rangle == | \langle = \rangle \rangle PowExpr)*
PowExpr ::= AdditiveExpr ** PowExpr | AdditiveExpr
AdditiveExpr ::= MultiplicativeExpr ( ( + | - ) MultiplicativeExpr )*
MultiplicativeExpr ::= UnaryExpr (( * | / | % ) UnaryExpr)*
UnaryExpr ::= (!|-|width|height) UnaryExpr | PostfixExpr
PostfixExpr::= PrimaryExpr (PixelSelector | \varepsilon ) (ChannelSelector | \varepsilon )
PrimaryExpr ::=STRING_LIT | NUM_LIT | IDENT | (Expr ) | CONST | BOOLEAN_LIT |
  ExpandedPixelExpr
ChannelSelector ::= : red | : green | : blue
PixelSelector ::= [Expr, Expr]
ExpandedPixelExpr ::= [ Expr , Expr , Expr ]
PixelSelectorInLValue ::= [Expr, Expr]
Dimension ::= [Expr, Expr]
LValue ::= IDENT (PixelSelector | \varepsilon) (ChannelSelector | \varepsilon)
Statement::=
       LValue = Expr |
       write Expr |
       do GuardedBlock [] GuardedBlock* od |
       if GuardedBlock [] GuardedBlock* if
       Expr |
       BlockStatement |
GuardedBlock := Expr -> Block
BlockStatement ::= Block
```

Note: the rules with orange background were parsed in assignment 1.