

*Program*  $\rightarrow$  **begin** *Statements* **end**

*Statements*  $\rightarrow$   $\epsilon$   
*Statement* *Statements*

*IfThenElseStatement*

*DoWhileStatement*

*Statement*  $\rightarrow$  *PrintStatement*

*DeclarationStatement*

*AssignmentStatement*

*IfThenElseStatement*  $\rightarrow$  *IfThen* *MaybeElse*

*IfThen*  $\rightarrow$  **if** ( *Expression* ) **then** { *Statements* }

*MaybeElse*  $\rightarrow$   $\epsilon$   
**else** { *Statements* }

*DoWhileStatement*  $\rightarrow$  **do** { *Statements* } **while** ( *Expression* ) ;

*PrintStatement*  $\rightarrow$  **print** ( *Expression* ) ;

*DeclarationStatement*  $\rightarrow$  **TypeSpecifier** *InitDeclarator* ;

*AssignmentStatement*  $\rightarrow$  **Identifier** = *Expression* ;

*InitDeclarator*  $\rightarrow$  **Identifier**  
**Identifier** = *Expression*

*Expression*  $\rightarrow$  *EqualityExpression*

*EqualityExpression*  $\rightarrow$  *RelationalExpression*  
*EqualityExpression* == *RelationalExpression*

*RelationalExpression*  $\rightarrow$  *AdditiveExpression*  
*RelationalExpression* > *AdditiveExpression*  
*RelationalExpression* >= *AdditiveExpression*

*AdditiveExpression*  $\rightarrow$  *MultiplicativeExpression*  
*AdditiveExpression* + *MultiplicativeExpression*

*MultiplicativeExpression*  $\rightarrow$  *PrimaryExpression*  
*MultiplicativeExpression* \* *PrimaryExpression*

*PrimaryExpression*  $\rightarrow$  **Identifier**  
**Number**  
( *Expression* )