**Program Declaration | Loop | ConditionStmt | Assign | Print | Func\_Return** *return*  **| Exp |** *SEMICOLON*

**Declaration** *DATATYPE ID* **FunDeclaration | VarDeclaration**

**FunDeclaration** *(* **Params** *) {* **Program** *}*

**VarDeclaration** *ASSIGNOP*

**Exp |** *ID**(* **Params** *)*

**|** [ NUM ]

*SEMICOLON*

**Params** *DATATYPE ID*  **|** *COMMA* **Params**

**Exp Exp**

*MATHOP* **|** *BITSOP*

**|** *ID* **|** *NUM*

**Loop** *LOOP ( DATATYPE ) ID IN (* **Range** *) ) {* **Program** *}*

**Range Exp** *RANGE* **Exp**

**ConditionStmt** *if\_stmt (* **Condition** *) {* **Program** *}* *else\_stmt {* **Program** *}*

**Condition Exp** *COMPARISONOP* **Exp**

**Assign** *ID ASSIGNOP*

*NUM |* **AssignToVar**

*SEMICOLON*

**AssignToVar Exp | Exp** *(* **Params** *)*

**Print** *PRINT ( ID ) SEMICOLON*