```
Program → main ( ) Compound-stmt
Compound-stmt → { InnerCompound-stmt }
InnerCompound-stmt → Variable statements
Variable \rightarrow type id S; Variable | \varepsilon
S \rightarrow, id S \mid = (Num \mid ID) Expression S \mid \varepsilon
statments \rightarrow Stmt statments | \varepsilon
Stmt \rightarrow ID Operator (+ | - | \epsilon) (Num | ID) Expression; | InnerCompound-stmt | If-Stmt |
selector-Stmt | until-stmt | loop-stmt | write-stmt | read-stmt
If-stmt \rightarrow if ((Num | ID) Expression) so Compound-stmt Else-stmt
Else-stmt \rightarrow else Compound-stmt | \varepsilon
Selector-Stmt → selector : ID { (selectStmt) (otherStmt)}
selectStmt → select NUM : compundStmt selectStmt | lambda
otherStmt → other : compundStmt | lambda
until-stmt → until (((Num | ID) Expression ) Compound-stmt
loopStmt \rightarrow (ID & (Num | ID) expression & ID(++ | --) ) compound_stmt
writeStmt → write (string stringValue);
string Value \rightarrow, id | \varepsilon
readStmt \rightarrow read ((int|char|float), id);
Expression → Operator Operand lambda
type \rightarrow int | void | float
Operator → RelOp | ArithOp
RelOp \rightarrow <= |<|>=|>|<>|==|+|-|*|/|++|--|+=|-=|/=
```