```
<PROGRAM>::= <DEF_VARS> <GLOB_VARS> <DEF_FUNCS> <FUNCS>
<MAIN_FUNC>
<DEF VAR> ::= "def" var name <EXP>
<GLOB VARS> ::= <VARS>
<VARS> ::= <VAR> "." <VARS> | λ
<VAR> ::= <DECLARE> | <REASSIGN>
<DECLARE> ::= <TYPE> var name <ASSIGN>
<ASSIGN> ::= <EXP> λ
<REASSIGN> ::= var_name <EXP>
<EQ_FUNC> ::= var_name "(" <ALL_ARGS> ")"
<EXP> | <EXP> "/" <EXP>
<TYPE> ::= "s" | "i"
<EVALUATE>
              <EVALUATE> "O" <EVALUATE>
<COMP> ::= "=" | "!" | ">" | "<" | ">="
   "<="
<DEF_FUNCS> ::= <DEF_FUNC> "." <DEF_FUNCS> | λ
<DEF_FUNC> ::= "fun" var name <TYPE> "(" <ALL_ARGS> ")"
<ALL_ARGS> ::= <ARGS> | λ
<ARGS> ::= <ARG> "," <ARGS> | <ARG>
```

```
<ARG> ::= <TYPE> var_name
<FUNCS> ::= <FUNC> <FUNCS> | λ
<FUNC> ::= var_name "fun" <TYPE> "(" <ALL_ARGS> ")" "{" <BODY> "}"
<br/>
<BODY> ::= <LINE> <BODY> | <BLOCK> <BODY> | \lambda
<LINE> ::= <CMD> "."
<CMD> ::= <REASSIGN> | < DECLARE> | <DEC> | <PRINT> | <SCAN> |
                                                     <INC>
                                                   < RET>
<INC> ::= var name "++"
<DEC> ::= var_name "--"
<PRINT> ::= "w" "(" <EXP> ")"
<SCAN> ::= "r" "(" var_name ")"
<RET> ::= "ret" <EXP>
                                    "ret"
<BLOCK> ::= <IFBLOCK> | <WHILEBLOCK>
<IFBLOCK> ::= "c" <EVALUATE> "." <BODY> "cc"
<WHILEBLOCK> ::= "I" <EVALUATE> "." <BODY> "cl"
<MAIN_FUNC>: "main" <TYPE> "(" <ALL_ARGS> ")" "{" <BODY> "}"
```