EBNF Grammar

Blue indicates a terminal token

Grey indicates a meta operator

Black indicates a non-terminal

```
Program -> (func |let)+
func -> func identifier ( paramList ) block
paramList -> (param | param , )*
param -> identifier : (type | identifier)
identifier -> ID(String)
type -> TYPE_INT32 | TYPE_FLT32 | TYPE_CHAR | TYPE_BOOL
let -> KW let
identifier (: type ( = identifier));
block -> [ (statement)* ]
statement -> let | if | return | while | print | assign | funcCall
if -> KW IF expression block KW ELSE block
return -> <a href="KW_RETURN">KW_RETURN</a> expression ;
while -> KW WHILE expression block
print -> KW PRINT expression;
assign -> identifier = expression ;
expression -> (identifier | literal ) expressionTail
literal -> LIT INT32(i32) | LIT FLT32(f32) | LIT CHAR(char) | LIT STRING(String) | LIT BOOL(bool)
expressionTail -> (operator | identifier)*
operator -> OP ADD | OP NUL | OP SUB | OP LT | OP GT | OP EQ | OP NGT | OP NLT | OP NEQ
funcCall -> identifier ( arguments );
arguments -> (identifier (,identifier)*)
```