```
<program>  -> begin <stmt_list> end

<stmt_list>  -> <stmt>
               | <stmt> <stmt_list>

<stmt> -> <assign_stmt>
        | <comment_stmt>
        | <def_stmt>

<def_stmt> -> <data_types> <identifiers>

<data_types> -> FLOAT
               | BOOLEAN
               | INTEGER
               | WIDTH
               | HEIGHT
               | STROKE_WIDTH
               | DEF_WIDTH
               | DEF_HEIGHT
               | RECTANGLE
               | LINE
               | OVAL
               | COMPOSITE_SHAPE
               | SHAPE
               | PARAMETER
               | LOCATION
               | COLOR
               | SET
               | DIRECTION
               | IDENTIFIER
               | CSHAPE


<identifiers> -> <identifier>
               | <identifier> <assign_stmt>
               | <identifier> <function_callers>

<assign_stmt> -> '=' <cshape>

<cshape> -> IDENTIFIER '+' IDENTIFIER
          | IDENTIFIER '+' IDENTIFIER '+' IDENTIFIER
          | IDENTIFIER '+' IDENTIFIER '+' IDENTIFIER'+'IDENTIFIER


<function_callers> -> IDENTIFIER "DRAW"
                    | IDENTIFIER "FILLSTATE"
                    | IDENTIFIER "FILLCOLOR"


<logic_stmt> -> < expr >
             | <expr> <logical_op>
             | <expr> <logical_op> <expr>

<comment_stmt> -> '/' '/' <stmt_list>
```

```
<expr>  ->  IDENTIFIER
              | <function_callers>
              | WIDTH
              | HEIGHT
              | STROKE_WIDTH
              | DEF_WIDTH
              | DEF_HEIGHT
              | RECTANGLE
              | LINE
              | OVAL
              | COMPOSITE_SHAPE
              | SHAPE
              | PARAMETER
              | LOCATION
              | COLOR
              | SET
              | DIRECTION


<logical_ op> -> '==' | '!=' | '<' | '>' | '<=' | '>=' | 'and' | 'or' | '->' | '*' | '|' | ':' | '!'
```