<program> --> START <declarations> MOM <statements> END

<declarations> -> <declaration> | <declaration> <declarations>

<declaration> -> <THINGS> <variable> “!”

<type> -> INT | FLOAT | CHAR

<variable> -> <CHAR> | “\_” {<CHAR> | <INT> | “\_”}

<CHAR> -> [a-z]

<INT> -> [0-9]

<statements> -> <statement> | <statement> <statements>

<statement> -> <assignment> | <conditional> | <loopwhl>

| QUIT “!” | OUTPUT <expression> “!”

<assignment> -> <VAR> “:” (<expression> | INPUT) “!” |

<or\_expr> -> <expression> {“/” < expression >}

<and\_expr> -> <comp> {“&” <comp>}

<comparison> -> <expression>

{(“<” | “>” | “<=” | “>=” | “=” | “!!”) <expression>}

<expr> -> <term> {(“+” | “-”) <term>}

<term> -> <factor> {(“\*” | “:”) <factor>}

<factor> -> “(” <or\_expr> “)” | <VAR> | <const>

<const> -> <integer> | <float> | <char>

<integer> -> [(+ | -)] <digit> {<digit>}

<float> -> [(+ | -)] <digit> {<digit>} “.” <digit> {<digit>}

<char> -> “‘“ . “‘“

<conditional> -> “WHITE” “(” <expr> “)” “{” <statements> “}”

“GREY” “(” <expr> “)” “{” <statements> “}”

“DARK” “{” <statements> “}” DONE

<LOOPWHL > -> LOOPWHL “(” <expression> “)” “{” <statements> “}”

DONE