<PROGRAM> : <STMT_LIST>

<STMT_LIST> : <STMT_LIST> "," <STMT>

| <STMT>

<STMT> : <FUNCTION DEF>

| <FUNCTION CALL>

| <CONDITION> | <REPETITION>

| <BREAK> | <RETURN> | <ASSIGN> | <OUTPUT> | <INPUT> | <EXPR>

<FUNCTION DEF> : "fun" <IDENTIFIER> <STMT LIST> "endfun"

| "fun" <IDENTIFIER> "(" <PARA_LIST> ")" <STMT_LIST> "endfun"

<PARA_LIST> : String "," <PARA_LIST>

| String

<FUNCTION_CALL> : "call" <IDENTIFIER> "(" <CALL_LIST> ")"

| "call" | <IDENTIFIER>

<CALL_LIST> : <EXPR> "," <CALL_LIST>

| <EXPR>

<CONDITION> : "if" "(" <COMP_EXPR> ")" <STMT_LIST> <ELSE_CON>

<ELSE_CON> : "elseif" "(" <COMP_EXPR> ")" <STMT_LIST> <ELSE_CON>

| "else" <STMT LIST> "endif"

| "endif"

<REPETITION> : "loop" "(" <RANGE_EXPR> ")" <STMT_LIST> "endloop"

| "loop" "(" <COMP_EXPR> ")" <STMT_LIST> "endloop" | "loop" "(" <IDENTIFIER> "in" <EXPR> ")" <STMT_LIST>

"endloop"

<RANGE EXPR> : <ASSIGN> "upto" <EXPR>

| <ASSIGN> "downto" <EXPR>

<COMP_EXPR> : <EXPR> <REAL_OPER> <EXPR>

<BREAK> : "break"

<RETURN> : "return" <EXPR>

| "return"

<assign> : <identifier> "=" <expr>

| <IDENTIFIER> "add" <EXPR>

<OUTPUT> : "print" "(" <MULT_OUTPUT> ")"

| "print" <EXPR>

<MULT_OUTPUT> : <EXPR> "," <MULT_OUTPUT>

|<EXPR>

<INPUT> : "input" <IDENTIFIER>

<EXPR> : <EXPR> <ADD_OPER> <TERM>

| <TERM>

<TERM> : <TERM> <MULTI OPER> <MODULU>

| <MODULU>

<MODULU> : <MODULU> <MOD_OPER> <FACTOR>

| <FACTOR>

<FACTOR> : <DIGIT>

| <STRING>

| <FUNCTION_CALL>

| <CONTAINER> | <IDENTIFIER> | "(" <EXPR> ")"

<ADD OPER> : "+"

| "-"

<MULTI_OPER> : "*"

| "**/**"

<MOD OPER> : "%"

<REAL_OPER> : "=="

| "!=" | ">" | "<" | ">="

<STRING> : /"[\w\W]*"/

<CONTAINER> : <IDENTIFIER> "[" <DIGIT> "]"

| "[" <LIST> "[" <DIGIT> "]"

| "[" <LIST> | "[" "]" | "{" "}"

| <IDENTIFIER "[" String "]" "=" <EXPR>

| <IDENTIFIER "[" String "]"</pre>

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: <EXPR> "," <LIST> | <EXPR "]" <LIST>

<IDENTIFIER> : <LETTER>

| <LETTER> (<LETTER> | <DIGIT>) | <LETTER> <IDENTIFIER>

: [a-zA-Z_]+ <LETTER>

: Integer <DIGIT>