Letter :=_ | [a-z|A-Z]

Digit := [0-9]

Nunsigned := (digit)+

Nsigned := (+|-)? Nunsigned

 Op := + | - | * | /

# (Language described as)

| 1 | *Number* | Nsigned(\.Nunsigned)? |
|---|---|---|
| 2 | *String* | (\")(\.)*(\") |
| 3 | *R_W* | ( int \| float \| string \| read \| write \| repeat \| until \| if \| elseif \| else \| then \| return \| endl) |
| 4 | *Comment_statement* | (\/\*)(\.)*(\*\/) |
| 5 | *Identifier* | (Letter)+ (Letter\|Digit)* |
| 6 | *Function_call* | (Identifier) {\(} { Identifier{{\, Identifier }?}}* {\)} |
| 7 | *Term* | ( Number\|Identifier\|Function_call) |
| 8 | *Arthimatic_operator* | Op |
| 9 | *Equation* | { {term [ op term ]+ } \| {\( [ op term ]+ \)} } |
| 10 | *Expression* | (String\|Term\|Equation) |
| 11 | *Assignment_statement* | Identifier (\:\=) Expression |
| 12 | *Datatype* | (int \| float\| string) |
| 13 | *Declaration_statement* | Datatype { (Identifier)\|( Assignment_statement)}  {{\,{ (Identifier)\|( Assignment_statement)} }?}}*(\;) |
| 14 | *Write_statement* | (write)(Expression\|endl)(\;) |
| 15 | *Read_statement* | (read) Identifier (\;) |
| 16 | *Return_statement* | (return) Expression (\;) |
| 17 | *Condition_operator* | (\< \| \> \|\<>) |
| 18 | *Condition* | Identifier (Condition_operator) Term |
| 19 | *Boolean_operator* | ({\&\&} \| {\|\|}) |
| 20 | *Condition_statement* | Condition (Boolean_operator  Condition)* |

| 21 | If_statement | (if) (Condition_statement) (then) (Write_statement\|Read_statement\|Assignment_statement\|Declarition_statement …) (Else_statment\|Else_if_statement\|end) |
|---|---|---|
| 22 | Else_if_statement | (else_if) (Condition_statement) (then) (Write_statement\|Read_statement\|Assignment_statement\|Declarition_statement …) (Else_statment\|Else_if_statement\|end) |
| 23 | Else_statement | (else) (Write_statement\|Read_statement\|Assignment_statement\|Declarition_statement …) (end) |
| 24 | Repeat_statement | (repeat) (Write_statement\|Read_statement\|Assignment_statement\|Declarition_statement …) (until) (Condition_statement) |
| 25 | Function_name | Identifier |
| 26 | Parameter | Datatype Identifier |
| 27 | Function_declarition | Datatype Function_name {\(} { Parameter {{\, Parameter }?}}*{\)} |
| 28 | Function_body | ( \{ ) (Write_statement\|Read_statement\|Assignment_statement\|Declarition_statement …) Return_statement (\}) |
| 29 | Function_statement | Function_declaration Function_body |
| 30 | Main_function | Datatype (main) (\( \)) Function_body |
| 31 | Program | ( Function_statement )* Main_function |