**Tiny Language Regular Expressions Rules**

1. Number:

^[0-9]+(\.[0-9]\*)?$

1. String:

\".\*\"

1. Reserved\_Keywords:

int|float|string|read|write|repeat|until|if|elseif|else|then|return|endl

1. Comment\_Statement:

/\\*([^\*]|[\r\n\t]|(\\*+([^/]|[\r\n\t])))\*\\*/

1. Identifiers:

^[a-zA-Z][a-zA-Z0-9]\*$

1. Function\_Call:

identifier\(identifier?(, \*identifier)\*\)

1. Term:

Number | identifier | Function\_Call

1. Arithmatic\_Operator:

^[+|\-|/|\*]$

1. Equation:

(Term|(Arithmetic\_Operator Term)\*|(Term Arithmetic\_Operator)\*\( Term|(Arithmetic\_Operator Term)\*\)(Arithmetic\_Operator Term)\*)

1. Expression:

String|Term|Equation

1. Assignment\_Statement:

Identifier\s\*:=\s\*Expression

1. Datatype:

int|float|string

1. Declaration\_Statement:

Datatype\s+(Assignment\_Statement|Identifier)(,\s\*(Assignement\_Statment|Identifier))\*\s\*;

1. Write\_Statement:

write\s+(Expression|endl)\s\*;

1. Read\_Statement:

read\s+Identifier\s\*;

1. Return\_Statement:

return\s+Expression\s\*;

1. Condition\_Operator:

(<>?|>|=)

1. Condition:

Identifier\s\*Condition\_Operator\s\*Term

1. Boolean\_Operator:

(&&|\|\|)

1. Condition\_Statement:

Condition\s\*Boolean\_Operator\*\s\*Condition

1. If\_Statement: If\s\*Condition\_Statement\s\*then\s\*(Assignment\_Statement| ReturnSatement|Read\_Statement|Write\_Statement|

Declaration\_Statement|…)\*\s\*(Else\_If\_Statement|Else\_Statement|

end)

1. Else\_If\_Statement:

elseif\s\*Condition\_Statement\s\*then\s\*(Assignment\_Statement| ReturnSatement|Read\_Statement|Write\_Statement|

Declaration\_Statement|…)\*\s\*(Else\_If\_Statement|Else\_Statement|

end)

1. Else\_Statement:

else\s\*(Assignment\_Statement|ReturnSatement|Read\_Statement|

Write\_Statement|Declaration\_Statement|…)\*\s\*end

1. Repeat\_Statement:

repeat\s\*(Assignment\_Statement|ReturnSatement|Read\_Statement|

Write\_Statement|Declaration\_Statement|…)\*\s\*until\s\*Condition\_Statement;

1. Continue from here