BNF Grammar for the language "Lua"

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```
<Program> ::= <Statements>
<Statements> ::= <Statement> `;' <Statements> | <Statement>
<Statement> ::= <Conditional-statement> | <Loop-statement> | <Assign-statement> |
                                  <Function-statement> | <expression>
<Conditional-statement> ::= `if'( <expression> ) <Statements> `end' |
                                                          `if' ( <expression> ) <Statements> `else' <Statements> `end'
<Loop-statement> ::= <while-stmt> | <repeat-stmt>
<while-stmt> ::= `while' `(' <expression> `)' `do' <Statements> `end'
<repeat-stmt> ::= `repeat' <Statements> `until' `(' <expression> `)'
<Assign-statement> ::= <identifier> `=' <expression>
<expression> ::= <expression> `or' <or-term> | <or-term>
<or-term> ::= <or-term> `and´ <and-term> | <and-term>
<and-term> ::= <and-term> `<´ <rel-term> | <and-term> `>´ <rel-term> |
                               <and-term> `<=' <rel-term> | <and-term> `>=' <rel-term> |
                               <and-term> `~=' <rel-term> | <and-term> `==' <rel-term> | <rel-term>
<rel-term> ::= <rel-term> `+' <term> | <rel-term> `-' <term> | <term>
<term> ::= <term> `*' <factor> | <term> `\' <factor> | <term> `\" <factor> | <factor> |
<factor> ::= `not´ <un-term> | `#´ <un-term> | `-´ <un-unterm> | <un-term>
<un-term> ::= <un-term> `^´ <identifier> | <un-term> `^´ iteral> | <identifier> | iteral> |
                             <Function-call>
<Function-statement> ::= `function' <identifier> <func body>
<func_body> ::= `('<arguments>`)' <Statements> <return-statement> `end' |
                                  `(´`)´ <Statements> <return-statement> `end´
<arguments> ::= <identifier> `,' <arguments> | <identifier>
<return-statement> ::= `return' <expression-list>
<expression-list> ::= <expression>`,'<expression-list> | <expression>
<Function-call> ::= <identifier> `('<arguments>`)' | <identifier> `('`)'
<identifier> ::= <letter><word>
<word> ::= <letter><word> | <digit><word> | &equiv 
!:= <number-literal> | `true' | `false'
<number-literal> ::= <digit><number-literal> | <digit>
<letter> ::= `a' | `b' | `c' | ....... | `z' | `A' | `B' | `C' | ....... | `Z' | `_'
<digit> ::= `0' | `1' | `2' | .... | `9'
```