Грамматика - четверка (Терминалы, Нетерминалы, Аксиома, Правила вывода)

Аксиома:

<program>

Терминалы:

not, and, or, if, while, elif, :, (, ), \0, \n, A...z, 0...9, +, -, \*, /,<=, >=, ==, >, <, true, false, =, +=, -=, \*=, /=

Нетерминалы:

<program>,<statement>, <expr>, <term>, <num>, <string>, <id> , <bool>, <int>, <float>, <digit>, <tab>, <line-end>, <augassign>, <alg-op>, <comp-op>, <bool-op>, <dot>, <second\_float\_part>, <first\_float\_part>, <char>, <closing-bracket>, <opening-bracket>, <first-id-part>, <second-id-part>, <assignment-op>, <statement-with-tab>, <set-statement-with-tab>, <if-statement>, <while-statement>, <elif-statement>, <string-chars>,<quote>

Правила вывода:

<program> → <program><statement>|<statement>

<statement> → <if-statement>|<while-statement>|\0|<expr> <line-end>

<if-statement> → <if><bool><double-dot><set-statement-with-tab> |  
<if><bool><double-dot><set-statement-with-tab><elif-statement> |  
<if><bool><double-dot><set-statement-with-tab><elif-statement><else-statement>|  
 <if><bool><double-dot><set-statement-with-tab><else-statement>

<else-statement> → <else><bool><double-dot><set-statement-with-tab>

<set-elif-statement> → <elif-statement>|  
<elif-statement><set-elif-statement>

<elif-statement> → <elif><bool><double-dot><set-statement-with-tab>

<while-statement> → <while><bool><double-dot><set-statement-with-tab>

<set-statement-with-tab> → <statement-with-tab>|  
<statement-with-tab><set-statement-with-tab>|<tab> <statement>

<expr>→ <term>| <id-with-assignment-op><term>

<id-with-assignment-op>→ <id><assignment-op>

<term> → <string>|<num>|<bool>

<num> → <id>|<float>| <int>|<opening-bracket><num><closing-bracket>|  
<num><alg-op><num >

<string> → <quote><string-chars><quote>|<id>|<string><plus><string>|  
<opening-bracket><string><closing-bracket>

<string-chars> → <digit>|<int>|<digit><string-chars>| <int><string-chars>

<bool> → <bool><bool-op><bool>|<opening-bracket><bool><closing-bracket>|  
<not-bool-op><bool>|true|false|<id>|<num> <comp-op><num>

<id> → <first\_id\_part>| <first\_id\_part><second\_id\_part>

<first\_id\_part> → <char>

<second\_id\_part> → < second\_id\_part ><second\_id\_part>|<char>| <digit>

<char> → A...z

<int> → <digit>|<int><digit>

<float> → <first\_float\_part><second\_float\_part>

<first\_float\_part> →<int><dot>

<second\_float\_part> → <int>

<digit> → 0...9

<tab> → /t

<line-end> →/n

<augassign> → +=|-=|\*=|/=

<alg-op> → <plus>|-|\*|/

<plus> → +

<comp-op> → <=|>=|==| >| <

<bool-op> → and|or

<not-bool-op> → not

<dot> → .

<opening-bracket> → (

<closing-bracket> → )

<assignment-op> → =

<elif> → elif

<if> → if

<while> → while

<double-dot> → :

<else> → else

<quote> → "

P.S. Да здравствует святая стрелочка!!!

