```
1.    <program> → <prolog> <eol_m> <functions>
2.    <prolog> → package main
3.    <eol_m> → EOL <eol_r>
4.    <eol_r> → EOL <eol_r>
5.    <eol_r> → eps
6.    <functions> → <func> <function_n>
7.    <function_n> → <func> <function_n>
8.    <function_n> → eps
9.    <func> → func ID ( <arguments> ) <func_return> <cmd_block>
10.   <arguments> → ID <type> <arguments_n>
11.   <arguments_n> → , ID <type> <arguments_n>
12.   <arguments_n> → eps
13.   <type> → int
14.   <type> → float64
15.   <type> → string
16.   <type> → bool
17.   <arguments> → eps
18.   <func_return> →  ( <f_type> )
19.   <f_type> → <type> <r_type_n>
20.   <f_type> → eps
21.   <r_type_n> → , <type> <r_type_n>
22.   <r_type_n> → eps
23.   <func_return> → eps
24.   <cmd_block> → { EOL <commands> }  EOL
25.   <commands> → <cmd> EOL <commands>
26.   <commands> → eps
27.   <cmd> → ID <statement>
28.   <statement> → <id_mul> = <assignment>
29.   <id_mul> → , ID <id_mul>
30.   <id_mul> → eps
31.   <assignment> → <expression> <expr_n>
32.   <expr_n> → , <expression> <expr_n>
33.   <expr_n> → eps
34.   <assignment> → ID ( <arguments_fc> )
35.   <statement> → ( <arguments_fc> )
36.   <statement> → := <expression>
37.   <statement> → <unary> <expression>
38.   <unary> → +=
39.   <unary> → -=
40.   <unary> → *=
41.   <unary> → /=
42.   <arguments_fc> → <expression> <expr_n>
43.   <arguments_fc> → eps
44.   <cmd> → if <expression> <cmd_block> <if_else>
45.   <if_else> → else <if_else_st>
46.   <if_else> → eps
47.   <if_else_st> → <cmd_block>
48.   <if_else_st> → if <expression> <cmd_block> <if_else>
49.   <cmd> → for <for_definition> ; <expression> ; <for_assignment> <cmd_block>
50.   <for_definition> → ID := <expression>
51.   <for_definition> → eps
52.   <for_assignment> → ID <id_mul> = <assignment>
53.   <for_assignment> → eps
54.   <cmd> → <return_cmd>
55.   <return_cmd> → return <return_stat>
56.   <return_stat> → <expression>
57.   <return_stat> → eps
58.   <return_cmd> → eps
```