```
1.
        o < eol m> < functions>
        cprolog> → package main
2.
3.
       <eol_m> \rightarrow EOL <eol_r>
4.
      \langle eol r \rangle \rightarrow EOL \langle eol r \rangle
5.
       \langle eol r \rangle \rightarrow eps
6.
       <functions> → <func> <function n>
7.
       <function n> \rightarrow <func> <function n>
       <function n> → eps
9.
       <func> → func ID ( <arguments> ) <func return> <cmd block>
10. \langle arguments \rangle \rightarrow ID \langle type \rangle \langle arguments_n \rangle
       <arguments n > \rightarrow , ID <type> <arguments n >
11.
12.
       <arguments_n> → eps
13.
        <type> → int
14. \langle type \rangle \rightarrow float64
15. \langle type \rangle \rightarrow string
16. \langle type \rangle \rightarrow bool
17. \langle arguments \rangle \rightarrow eps
18. \langle \text{func return} \rangle \rightarrow (\langle \text{f type} \rangle)
19. \langle f \text{ type} \rangle \rightarrow \langle \text{type} \rangle \langle \text{r_type_n} \rangle
20. \langle f_type \rangle \rightarrow eps
       <r_type_n> \rightarrow , <type> <r_type n>
21.
22.
       <r type n> \rightarrow eps
23.
        <func return> → eps
24.
        <cmd_block> \rightarrow { EOL <commands>} EOL
25.
        <commands> \rightarrow <cmd> =EOL <commands> =
26. < commands > \rightarrow eps
27. \langle cmd \rangle \rightarrow ID \langle statement \rangle
28. \langle statement \rangle \rightarrow \langle id mul \rangle = \langle assignment \rangle
29. \langle id mul \rangle \rightarrow , ID \langle id mul \rangle
30. \langle id mul \rangle \rightarrow eps
31.
      <assignment> → <expression> <expr n>
32.
       <expr_n> → , <expression> <expr_n>
33.
       <expr_n> → eps
       <assignment> → ID ( <arguments_fc> )
34.
35.
        <statement> → ( <arguments_fc> )
36.
       <statement> → := <expression>
37. <statement> → <unary> <expression>
38. \langle unary \rangle \rightarrow +=
39. \langle unary \rangle \rightarrow -=
40. \langle unary \rangle \rightarrow *=
41. \langle unary \rangle \rightarrow /=
42. <arguments_fc> \rightarrow <expression> <expr_n>
43. \langle arguments_fc \rangle \rightarrow eps
       <cmd> → if <expression> <cmd_block> <if_else>
44.
45.
        <if_else> → else <if_else_st>
46.
        <if else> → eps
47.
        <if_else_st> → <cmd_block>
48.
       <if_else_st> \rightarrow if <expression> <cmd_block> <if_else>
49.
      <cmd> \rightarrow for <for definition>; <expression>; <for assignment> <cmd block>
50. \langle for\_definition \rangle \rightarrow ID := \langle expression \rangle
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.

58.

<return stat> → eps

<return cmd> → eps