```
TYPES \rightarrow int | float | double | long | boolean
  OP -> + | + - | / | * | =
3
    -----
    digit \rightarrow [0-9]
4
5
    digits -> digit +
6
    Optional Fraction -> .digits | $
7
   number -> digits | digits Optional Fraction | Oxdigits | Obdigits
8
   -----
9
   letter -> [a-z A-z ]
10 id -> letter (letter | digit) *
11
    -----
   ws -> (blank | tab | new line)
12
13
   punc -> ( | ) { | } | [ | ] | , | ;
14
   arr -> id[digits]
15
   id -> arr
16
    -----
17
    IF -> if (expr) {stmt} | if (expr) {stmt} else {stmt} | $
18
   expr -> term relop term | term
19
   term -> id | number | value
20
   relop -> < | > |<= | >= | < | > | !=
21
    -----
22
    dec -> type id (Ep | = number | =false | = true | [digits] | = operation)
23
    operation -> id = value
24
    value -> id (op id) * | number | true | false
25
    _____
26
    FOR -> for(typegftr id;expr;operation){stmt}
27
    WHILE -> (expr) {stmt}
    func -> (type|void) id ((type id)*){stmt (return (value | id) | Ep)}
28
29
    -----
30
    keyword -> {int , float, double , long , boolean , if , while , for , else , return ,
    void }
31
    indentifier
   punctuation {(,),{,},[,],;,,}
32
33
   number [0-9]
34
    operator {+,-,*,/,=}
35
```