```
Specification (file Lexic.txt)
Alphabet:
a. Upper (A-Z) and lower case letters (a-z) of the English alphabet
b. Underline character '_';
c. Decimal digits (0-9);
Lexic:
a. Special symbols, representing:
- operators & @ $ # {} <<< >>>
- separators []:. space
- reserved words:
  arry chr cnst do 3153 17 dec in out ret -> loop flo
b.identifiers
 -a sequence of letters and digits, such that the first character is a letter; the rule is:
  identifier ::= letter | letter{letter}{digit}
  letter ::= "A" | "B" | . ..| "Z"
  digit ::= "0" | "1" |...| "9"
c.constants
1.integer - rule:
    noconst:="+"no|"-"no|no
    no:=digit{no}
2.character
  character:='letter'|'digit'
3.string
    constchar:="string"
    string:=char{string}
    char:=letter|digit
```

2. Syntax:

```
The words - predefined tokens are specified between " and ":
Sintactical rules: (file Syntax.in)
program ::= decllist "." cmpdstmt "."
decllist ::= declaration | declaration "." decllist
declaration ::= type IDENTIFIER "."
type1 ::= "dec" | "chr" | "flo"
arraydecl ::= "arry" "[" nr "]" "OF" type1
type ::= type1|arraydecl
cmpdstmt ::= "[" stmtlist "]"
stmtlist ::= stmt | stmt "." stmtlist
stmt ::= simplstmt | structstmt
simplstmt ::= assignstmt | iostmt
assignstmt ::= IDENTIFIER "{}" expression
expression ::= expression "&" term | expression "@" term | term
term ::= term "$" factor | term "#" factor | factor
factor ::= "(" expression ")" | IDENTIFIER
iostmt ::= "in" | "out" "<" IDENTIFIER ">"
structstmt ::= cmpdstmt | ifstmt | whilestmt | loopstmt
ifstmt ::= "17" condition ":" stmt ["3153" stmt]
whilestmt ::= "woah" condition "DO" stmt
loopstmt ::= "loop" IDENTIFIER "->" IDENTIFIER ":"
condition ::= expression RELATION expression
RELATION ::= "<<<" | "<<<{}" | "{}" | ">>>{}" | ">>>"
```

. {} dec flo chr in out loop woah [] < > ret & @ \$ # ^x <<< >>> 17 3153 -> arry cnst 0 1 2 3 4 5 6 7 8 9 а b c d е f g h i j k I m n 0 р q r s t