LEXIC

Alphabet:

- a. Upper (A-Z) and lower-case letters (a-z) of the English alphabet
- b. Underline character "_"
- c. Decimal digits (0-9)

1. Lexic:

- a. Special symbols, representing:
 - operators +-* div mod = is >>= < <= and or not .
 - separators :; space []
 - reserved words cst verify yes no print var read

b. Identifiers

- c. Constants
 - 1. Integer

2. Character

3. String

4. Boolean

TOKEN

div mod = is > >= < <= and or not space [words cst verify yes no

print var read return

list

go

as

with

Т

F

SYNTAX

```
program = {declist | compstmt}
declist = declaration {declaration}
declaration = type identifier ";"
type = "var" | "cst" | listdcl
listdcl = "list" "[" nr "]"
compstmt = { stmtlist }
stmtlist = stmt {stmt}
stmt = simplestmt | structstmt
simplestmt = assignstmt | iostmt
assignstmt = identifier "=" expr ";"
expr = term {("+" | "-") expr}
term = factor {("*" | "div" | "mod") term}
factor = identifier | int
iostmt = "read" | "print" identifier ";"
structstmt = compstmt | ifstmt | forstmt
ifstmt = "verify" cond "yes" ":" stmt ["no" ":" stmt]
cond = expr rel expr
rel = "is" | "<" | "<=" | ">" | ">="
forstmt = "go" assignstmt "as" cond "with" assignstmt ":" stmt
```