```
Alphabet:
a-z
A-Z
0-9
1.Lexic:
a.Special symbols
-operators: +, -, *, /, <-, <, <=, >, >=
-separators: [], {}, //, :, *
-reserved words:
array, con, if, else, do, while, var, read, write, for
b.identifiers
-a sequence of digits:
identifier ::= digit|digit{digit}
digit::="0"|"1"|...|"9"
c.constants
1.int:
nrconst:="+"nr|"-"nr|nr
nr:=digit{nr}
2.char:
char:='letter'|'digit'
3.str:
constchar:="string"
string:=char{string}
program ::= "start" cmpStmt
statement ::= /decl | assigStmt | ifStmt |
          whileStmt | returnStmt | forStmt | ioStmt/
decl::="/"IDENTIFIER"/": type
type::="BOOL" |"CHAR"|"INT"|"REAL"|"STR"
arrayDecl ::= "array" " " type " " IDENTIFIER "[" "]"
stmtList ::= stmt | stmt "*" statement_list
cmpStmt ::= "{" statement_list "}"
expression ::= expression + term | expression - term | term
term ::= term * factor | term / factor | factor
factor ::= "/" expression "/" | IDENTIFIER | CONST
ioStmt ::= "read" "/" IDENTIFIER "/" | "write" "/" IDENFITIER "/" | "write "/" CONST "/"
assignStmt ::= IDENTIFIER "<-" expression
ifStmt::= "if" "/" condition "/" cmpStmt| "if" "/" condition "/"cmpStmt "else" cmpStmt
whileStmt ::= "while "/" condition "/" cmpStmt
```

```
doWhileStmt::= "do" cmpStmt "while" "/"condition"/" returnStmt ::= "return expression" forStmt::= "for" forCond cmpStmt forCond ::= "/" "int" assignStmt ";" condition ";" assignStmt ")" condition ::= expression relation expression relation ::= "<" | "<=" | "==" | "!=" | ">=" | ">=" | ">=" | ">"
```

Α В С D E F G Н 1 J Κ L Μ Ν 0 Ρ Q R S Т U V W Χ Υ Ζ а b С d е f g h

k

m n o p q r s t

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w
Χ
У
z
0
1
2
3
4
5
6
7
8
9
==
<=
<
>
>=
!=
space
read
write
if
else
for
while
do
int
str
real
char
return
start
```

array