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);
- 1. Lexic:
- a. Special symbols, representing:
- operators + * / -> < <= = >= ! !=
- separators () <{}> . space ~
- reserved words: MORE char const perform otherwise when then choose nr scan write while var
- b. Identifiers

identifier ::= letter | letter{letter}{digit}{symbol}

- c. Constants
- 1. Integer rule:

- n:=digit{no}
- 2. Character

3. String

string:=char{string}

char:=letter|digit

```
Syntax.txt
program ::= "COD" decllist "~" cmpdstmt "."
decllist ::= declaration | declaration "~" decllist
declaration ::= IDENTIFIER ":" type
type1 ::= "ALBA_NEAGRA" | "VORBE" | "DINAIA" | "DITOATE"
arraydecl ::= "MORE" "[" nr "]" "OF" type1
type ::= type1|arraydecl
cmpdstmt ::= "ONWARD" stmtlist "AT_EASE"
stmtlist ::= stmt | stmt "~" stmtlist
stmt ::= simplstmt | structstmt
simplstmt ::= assignstmt | iostmt
assignstmt ::= IDENTIFIER "->" expression
expression ::= expression "+" term | term
term ::= term "*" factor | factor
factor ::= "(" expression ")" | IDENTIFIER
iostmt ::= "SCAN" | "WRITE" "(" IDENTIFIER ")"
structstmt ::= cmpdstmt | ifstmt | whilestmt | choosestmt
ifstmt ::= "WHEN" condition "THEN" stmt ["OTHERWISE" stmt]
whilestmt ::= "WHILE" condition "PERFORM" stmt
choosestmt ::= "CHOOSE" "(" expression ")" "{" caselist "}"
caselist ::= case caselist | defaultstmt
case ::= "CASE" constant ":" stmtlist
defaultstmt ::= "DEFAULT" ":" stmtlist
condition ::= expression RELATION expression
RELATION ::= "<" | "<=" | "=" | "<>" | ">=" | ">"
```

Token.txt