https://github.com/andrei47w/LFTC-ubb/tree/master/lab3

Scanner steps:

- splits the file by lines
- parses through each character from the line and does 3 checks:
- if the token is an operator (=, <, >, etc.)
- if the token is a string (is surrounded by ")
- if the token is a separator (;, {, [, etc.)
- else it's an identifier
- if the result is a known token we add it in PIF with the ID (-1, -1)
- else we use the ID from the symbol table in PIF
- if it isn't a token or cannot be stored in the symbol table, it is an error

Input: token.in, program.txt

Output: PIF.out, ST.out, message "lexically correct" or "lexical error + location"

Regex uses:

Identifier: $^[a-z]([a-zA-Z]|[0-9])^*$

-must begin with a lowercase letter and can continue with 0 or more letters or digits

Constant: ^(0|[+\-]?[1-9][0-9]*)\$

-must begin with a 0, + or – and must start with a non-zero digit followed by 0 or more digits

