https://github.com/IulianCrudu/FLCD

The Scanner first reads all the tokens from the tokens.in file and saves it in an array.

Then, given a program file, it reads the program line by line. For each line it will split all the different tokens/parts of that line, it does this by wrapping with spaces every token found so that we can then split the string line by space and get the list of different tokens.

Special handling is done for + and - because those can be used for arithmetic operations or for specifying positive/negative numbers.

After we have all the tokens from a line, we then classify them, if they are tokens from the token.in file we add them to the pif table with the -1 code. If the token is a constant or identifier, we first add them to the Symbol Table(ST) and then use the position returned from the ST to add it to the pif list.
If the token is not a special token, identifier or constant we throw a lexical error.