Laboratory 3 – Harangus Vlad Cristian, 934

https://github.com/vladharangus/Lab2

Symbol Table

Request: Implement the Symbol Table (ST) as the specified data structure, with the corresponding operations

For the representation of the Symbol Table I use a BST ordered alphabetically. For simulating the positions I added a filed in Node class which is automatically incremented.

Scanner

Request: Implement a scanner (lexical analyzer): Implement the scanning algorithm and use ST from lab 2 for the symbol table.

For this laboratory I have implemented the scanner class. It takes the program to be scanned and the symbol table and, using the scanProgram method it constructs the Program Internal Form(PIF) and fills in the symbol table. The main rule of my language is that: it has to be a space between each atom in program. To get the tokens I split each line by space and I classify each token and I construct PIF and ST.