Github Repository: <https://github.com/DragosMoldovanu/PLCD-Lab2>

Documentation:

Scanner Methods

scan()

Scans the source file, tokenizes it and distributes the tokens into PIF and ST

Input:-

Output:-

Pre: Input file must exist

Post: Tokens will be distributed into PIF and ST

separate(token)

Recursive function that separates a composed token into its base tokens

Input: token -> String

Output:-

Pre: token contains no empty spaces

Post: Base tokens will be distributed into PIF and ST

identify(token)

Takes a token and identifies whether it is a keyword, an identifier or a constant

Input: token -> String

Output:-

Pre: token contains no empty spaces and no delimiters

Post: the corresponding token of the correct time is put into PIF and ST

processString(token)

Adds the string delimiters to PIF and dumps the entire content of the string as a constant

Input: token -> String

Output:-

Pre:-

Post: the string is placed as a single constant into PIF and ST

processChar(token)

Adds the char delimiters to PIF and checks char vailidity before adding it to PIF and ST

Input: token -> String

Output:-

Pre:-

Post: if the string contains one single character, it will be added to PIF and ST as constant

scanInteger(token)

Checks if the string represents a constant integer and adds it to PIF and ST if it is

Input: token -> String

Output: true/false

Pre: token contains no empty spaces and no delimiters

Post: if the string fulfills the requirements, it is added to PIF and ST as a constant

scanBoolean(token)

Checks if the string represents a constant boolean and adds it to PIF and ST if it is

Input: token -> String

Output: true/false

Pre: token contains no empty spaces and no delimiters

Post: if the string fulfills the requirements, it is added to PIF and ST as a constant

scanIdentifier(token)

Checks if the string represents an identifier and adds it to PIF and ST if it is

Input: token -> String

Output: true/false

Pre: token contains no empty spaces and no delimiters

Post: if the string fulfills the requirements, it is added to PIF and ST as an identifier