

Scanner

Lab 3

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Git: <https://github.com/CMihai998/FLCD/tree/master/Lab3>

Tokens: - class that contains all important tokens of the language:

- separators

- operators

- reserved words

Scanner: - class that uses tokens to tokenize and can recognize if a token is one of the important ones.

Program Internal Form: keeps the program internal form

Main: we read line by line, we tokenize the line and we tell the user if there is a problem on that line, everything that is ok gets added to program internal form.

scanner.Scanner.Scanner
__init__(self)
tokenize(self, line)
get_operator_token(self, line, position)
is_part_of_operator(self, part)
is_operator(self, token)
is_separator(self, char)
is_reserved_word(self, char)
is_identifier(self, token)
is_constant(self, token)
_tokens

scanner.Tokens.Tokens
__init__(self)
initialize(self)
get_separators(self)
get_operators(self)
get_reserved_words(self)
__str__(self)
_operators
_separators
_reserved_words

scanner.ProgramInternalForm.ProgramInternalForm
__init__(self)
add(self, token, position)
__str__(self)
_program_internal_form

dataStructures.HashTable.HashTable
__init__(self, size)
index(self, elem)
hash(self, elem)
add(self, elem)
__str__(self)
_items
_size

dataStructures.SymbolTable.SymbolTable
__init__(self)
insert(self, elem)
search(self, elem)
__str__(self)
_hash_table