

<https://github.com/GalaHighlander/LFTC/tree/master/lab%202>

ST
integer(size) list<string> *(table)
ST() insertValue() checkIfExists() hashFunction() showST()

ST data structure is represented on a hash table with simple chaining.

It is structured on an array of linked lists. Every index represents a linked list.

Void insertValue(string value):

Inserts a new element if it is not already in the table

Pre: the new element

Post: -

Bool checkIfExists(string value):

Returns True if the element is already in the table, and false otherwise

Pre: the new elem

Post: true or false

Int hashFunction(string value):

The hash function returns an integer which represents the new index for the value to be inserted

Pre: the new element

Post: the index for that new element

Void showST():

Prints in the console the values from the ST

Pre: -

Post: -