Lab 2 documentation – Suciu Andrei Mircea 937/1

https://github.com/andreimsuciu/FLCD-Y3-S1

Implementing a **SymbolTable** using **HashTable**:

SymbolTable contains a private HashTable and a public function pos(token)

The function checks if we have the token in the table. If:
1. it is NOT in the table, it puts the token in the table and returns position.
2. it is in the table, it return its position.

HashTable contains an array of tokens.
The hash function returns the modulo of the sum of ASCII representations of each character

The put function hashes the token, then it checks if that position contains another token. If it does we increase position by 1, until we find a free position, then we return it.

The get position hashes the token, then it checks if that position contains another token. If it does we increase the position until we find our token, and return the position. If we don't find our token, or reach an empty position, the function returns -1, signalling that the token is not in the table.