

<https://github.com/DaniiiB/Lab2-LFTC>

My Symbol Table representation consists of a hash table with 23 possible hash values.

The hash table consists of a static vector of Node elements. Each Node element contains the information, which is a string, and a pointer to the next Node.

The hash function I chose is: The sum of ascii codes of every character of the given string, everything mod 23.

```
class HashTable
{
private:
    Node* table[26];

public:
    HashTable();

    /*
    Pre: the string must be valid
    Post:
    Input: string
    Output: integer
    Functionality: hashes the value of the input to an integer between 0 and 25
    */
    int hash(std::string token);

    /*
    Pre: the string must be valid
    Post:
    Input string
    Output: integer
    Functionality: inserts the given input into the hash table and returns the hash value that the input was given
    */
    int insert(std::string token);

    /*
    Input:
    Output: string
    Functionality: turns the hash table into a readable form
    */
    std::string print();

    ~HashTable();
};
```

