

RAUL MOGOS - lab2 -flcd

<https://github.com/raulmogos/compiler-design/tree/main/lab2>

HashMap:

members:

list: List<LinkedList<String>>
size: int

methods:

```
public HashMap(int size)
    PRECONDITIONS: int > 0
    POSTCONDITIONS: none
    DESCRIPTION: creates an instance of HaspMap with the give size

private int hash(String s)
    PRECONDITIONS: s of type string
    POSTCONDITIONS: none
    RETURN: int
    DESCRIPTION: calculates the the hash as: (c1 + c2 + ... + cn) % size
                add all the chars ascii values and then mod size

public void add(String s)
    PRECONDITIONS: s of type string
    POSTCONDITIONS: none
    RETURN: void
    DESCRIPTION: adds the string in the hashmap if it does not exist, else
it won't be added

public int getIndex(String s)
    PRECONDITIONS: s of type string
    POSTCONDITIONS: none
    RETURN: int
    DESCRIPTION: gets the index of the given string s if it is in the
hashmap, else -1
```

SymbolTable

members:

SIZE: int;
hashMap: HashMap;

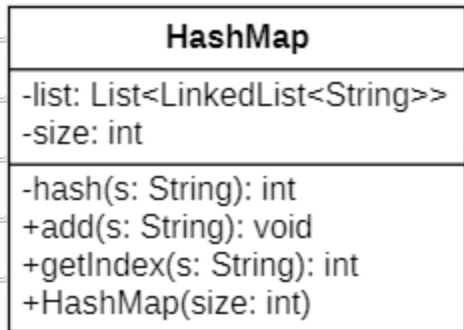
methods:

```
public SymbolTable(int size)
    PRECONDITIONS: int > 0
    POSTCONDITIONS: none
    DESCRIPTION: creates an instance of SymbolTable with the give size

public SymbolTable()
    DESCRIPTION: creates an instance of SymbolTable with the default size

public void insert(String s)
    PRECONDITIONS: s of type String
    POSTCONDITIONS: none
    DESCRIPTION: adds a string in the symbolTable

public int getIndex(String s)
    PRECONDITIONS: s of type String
    POSTCONDITIONS: none
    DESCRIPTION: get the index of that string s, else -1
```



+has a

