

Raul-Mihai Rusu

Group 937

Github Link: <https://github.com/RaulRusu/FLCD2023/tree/feature/symbolTable>

The symbol table is represented internally as a hash table. The number of buckets it's constant but each bucket is represented as a dynamic linked. The hash function used is djb2. The implementation of the hash table is very simplistic, the load factor is not taken in consideration and no rehashing will be done if the underlying hash table becomes inefficient.

For now, only a single function is exposed in the symbol table class "Position". It takes a token (represented as a string) and the function returns the position of that token in the internal representation of the symbol table, in this case hash table. If the token is not present it will be added, and the position of this newly added element is returned.