

Symbol Table

git: <https://github.com/andradatiutin/FLCD>

The SymbolTable is represented on a hash table, where each element is a pair consisting of (key, linked-list), where the linked list contains the values hashed to the same key. Also it has a variable m - the number of positions.

The hash function is computed as the sum of the ascii code of the identifier/constant $\% m$.

The search function, finds the position in the hash for the given parameter, and then check if it is in the linked list. If it is, then returns the position on which it is placed on the linked list, otherwise -1.

The add function, finds the position in the hash for the given parameter, and then checks if it is already there. If it is, returns -1, otherwise returns the position on which it is placed.