

Git link: <https://github.com/Arnold-21/Compiler>

My SymbolTable uses HashTable storage with the bucket list conflict solution.

The HashTable implements addition and search by both value and position.

Every element it stores has to be a string, and the hashfunction used is a simple ascii sum of the characters, with modulo of the length of the container.

The positions of the elements are given as follows: 1) The index of the bucket, in which the element is located, 2) The index of the element in the given bucket.

The SymbolTable treats every symbolic value as a string, but there is a distinction between all of them.

Identifiers, bool and int constants are just treated as they are, since their structure is distinctive.

Char and string constants are appeneden between " and " characters respectively for the distinction from the rest.