

<https://github.com/MirceaDragosVlad917/FLCD/tree/main/Lab2>

The code is the implementation of a hash table with separate chaining.

- The hash function - receives as parameter the key and computes it's hash as the absolute value of the remainder of the division of the hash code of the key to the capacity of the table
- The insert function - adds an element of the type (key, value) to the hash table. In case of **collisions**, as the hash table uses separate chaining, if we add an element with a key that returns the same hash from the hash function as another already existing element, it will be added to an indexed bucket, similar to a linked list, at the end of the list
- The find function - finds the key of the node in the hash table and returns the value of the node and it's index in the bucket, or None if it doesn't exist
- The remove function - removes a node from the hash table based on it's key, and returns the value of the deleted node, or None if the key doesn't exist in the hash table