HashTable

-Used to implement an associative array

* Key , Value
* Offers fast insertion and searching
* There are limited in size because they are based on arrays
  + Can be resized but it should be avoided
* They are hard to order
* Key values are assigned to elements in a Hash Table using a Hash Function
* A Hash Function helps calculate the best index an item should go in
  + Index must be small enough for the array size
  + Don’t overwrite other data in the hashtable
* STORE VALUE IN AN ARRAY WITH A LIMITED SIZE
* Array doesn’t have to be searched through to find values
  + Can enter values in any order and be able to find them using a calculation instead of searching through the array
* Looks at a certain key and evaluates the key to gives us a certain number of where to store the value
* HashTable with chaining -> add a linked list to each array index. (Taking care of collisons (same index)