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| TAD HashTable |
| “Collection of pairs (key, value). Key is used to access the value, just as an array index is used to access the corresponding element in the array” (Notthingham, s.f). |
| HashTable() HashNode< I, E > |
| HashTable: hashtable ->hashtable  Set: hashtable -> element  Insert: hashtable -> hashtable  Search: hashtable x element ->element |
| HashTable ()  “Is the constructor of the hashTable structure.”  {pre: N/A}  {pos: creates an empty HashTable } |
| Set ()  “Is the method that replicates the put () methods in hashTable”  {pre: key is a valid key}  {pos: the pair is inserted in the hash table. If there was another value associated with this key before, the element is inserted in a linked List.} |
| Insert ()  “Adds a new input in the hashTable”  {pre: key must not be null)}  {pos: the element is stored in the hashTable.} |
| Search ()  “Search for a Node and returns it.”  {pre: the key mustn’t be null}  {pos: it returns the Node that matches the key.} |