

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 package main
4
5 type LRUCache struct {
6     index      map[string]*DoublyLinkedListNode
7     maxSize    int
8     currentSize int
9     listOfMostRecent *DoublyLinkedList
10 }
11
12 func NewLRUCache(size int) *LRUCache {
13     lru := &LRUCache{
14         index:      map[string]*DoublyLinkedListNode{},
15         maxSize:     size,
16         currentSize: 0,
17         listOfMostRecent: &DoublyLinkedList{},
18     }
19     if lru.maxSize < 1 {
20         lru.maxSize = 1
21     }
22     return lru
23 }
24
25 // O(1) time | O(1) space
26 func (cache *LRUCache) InsertKeyValuePair(key string, value int) {
27     if _, found := cache.index[key]; !found {
28         if cache.currentSize == cache.maxSize {
29             cache.evictLeastRecent()
30         } else {
31             cache.currentSize += 1
32         }
33         cache.index[key] = &DoublyLinkedListNode{
```

Solution 1 Solution 2 Solution 3

```
1 package main
2
3 // Do not edit the class below except for the insertKeyValuePair,
4 // getValueFromKey, and getMostRecentKey methods. Feel free
5 // to add new properties and methods to the class.
6 type LRUCache struct {
7     maxSize int
8     // Add fields here.
9 }
10
11 func NewLRUCache(size int) *LRUCache {
12     // Write your code here.
13     return nil
14 }
15
16 func (cache *LRUCache) InsertKeyValuePair(key string, value int) {
17     // Write your code here.
18 }
19
20 // The second return value indicates whether or not the key was found
21 // in the cache.
22 func (cache *LRUCache) GetValueFromKey(key string) (int, bool) {
23     // Write your code here.
24     return -1, false
25 }
26
27 // The second return value is false if the cache is empty.
28 func (cache *LRUCache) GetMostRecentKey() (string, bool) {
29     // Write your code here.
30     return "", false
31 }
32
```

Our Tests

Custom Output

Submit Code

