

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     class LRUCache {
5         var maxSize: Int
6         var currentSize = 0
7         var cache = [String: DoublyLinkedListNode]()
8         var listOfMostRecent = DoublyLinkedList()
9
10        init(maxSize: Int) {
11            self.maxSize = maxSize
12        }
13
14        // O(1) time | O(1) space
15        func insertKeyValuePair(_ key: String, _ value: Int) {
16            if !cache.keys.contains(key) {
17                if currentSize == maxSize {
18                    evictLeastRecent()
19                } else {
20                    currentSize += 1
21                }
22
23                cache[key] = DoublyLinkedListNode(key, value)
24            } else if let existingNode = cache[key] {
25                existingNode.value = value
26            }
27
28            if let node = cache[key] {
29                updateMostRecent(node)
30            }
31        }
32
33        func evictLeastRecent() {
```

Solution 1   Solution 2   Solution 3

```
1 class Program {
2     class LRUCache {
3         var maxSize: Int
4
5         init(maxSize: Int) {
6             self.maxSize = maxSize
7             // Write your code here.
8         }
9
10        func insertKeyValuePair(_ key: String, _ value: Int) {
11            // Write your code here.
12        }
13
14        func getValueFormKey(_ key: String) -> Int? {
15            // Write your code here.
16            return nil
17        }
18
19        func getMostRecentKey() -> String? {
20            // Write your code here.
21            return nil
22        }
23    }
24 }
25
```

Our Tests

Custom Output

Submit Code

```
1 class Program {
2     init() {
3         // ...
4     }
5 }
6
```

```
1 // Custom Output
2
```

```
11 # Stop watching all threads
12
13
14 # Start watching all threads
15 # Stop watching all threads
16
17 # Start watching all threads
18 # Stop watching all threads
19
20 # Start watching all threads
21 # Stop watching all threads
22
23 # Start watching all threads
24 # Stop watching all threads
25
```

Run or submit code when you're ready.