AlgoExpert

Quad Layout

Python

14рх

19

Sublime

Monokai

00:00:

Our Solution(s)

Run Code

Your Solutions

Solution 1 Solution 2

Run Code

```
Solution 1
```

33

def evictLeastRecent(self):

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3
   class LRUCache:
       def __init__(self, maxSize):
 4
           self.cache = {}
           self.maxSize = maxSize or 1
           self.currentSize = 0
            self.listOfMostRecent = DoublyLinkedList()
9
       # 0(1) time | 0(1) space
10
11
       def insertKeyValuePair(self, key, value):
12
            if key not in self.cache:
                if self.currentSize == self.maxSize:
14
                   self.evictLeastRecent()
                   self.currentSize += 1
16
17
               self.cache[key] = DoublyLinkedListNode(key, value)
18
            else:
19
               self.replaceKey(key, value)
20
            self.updateMostRecent(self.cache[key])
21
        # 0(1) time | 0(1) space
        def getValueFromKey(self, key):
24
            if key not in self.cache:
                return None
26
            self.updateMostRecent(self.cache[key])
27
            return self.cache[key].value
28
29
        \# O(1) time \mid O(1) space
30
        def getMostRecentKey(self):
31
            return self.listOfMostRecent.head.key
32
```

```
1 # Do not edit the class below except for the insertKeyValuePair,
 2 # getValueFromKey, and getMostRecentKey methods. Feel free
   # to add new properties and methods to the class.
 4 class LRUCache:
       def __init__(self, maxSize):
           self.maxSize = maxSize or 1
       def insertKeyValuePair(self, key, value):
9
           # Write your code here.
10
           pass
11
       def getValueFromKey(self, key):
12
13
           # Write your code here.
14
           pass
15
       def getMostRecentKey(self):
16
17
            # Write your code here.
18
           pass
```

Solution 3

Our Tests Custom Output Submit Code



Run or submit code when you're ready.