

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 ContinuousMedianHandler struct {
6     Median float64
7
8     lowers *Heap
9     greater *Heap
10 }
11
12 func NewContinuousMedianHandler() *ContinuousMedianHandler {
13     return &ContinuousMedianHandler{
14         Median: 0,
15         lowers: NewHeap(MaxHeapFunc),
16         greater: NewHeap(MinHeapFunc),
17     }
18 }
19
20 func (handler *ContinuousMedianHandler) GetMedian() float64 {
21     return handler.Median
22 }
23
24 // O(log(n)) time | O(n) space
25 func (handler *ContinuousMedianHandler) Insert(number int) {
26     if handler.lowers.Length() == 0 || number < handler.lowers.Peek() {
27         handler.lowers.Insert(number)
28     } else {
29         handler.greater.Insert(number)
30     }
31     handler.rebalanceHeaps()
32     handler.updateMedian()
33 }
```

Solution 1 Solution 2 Solution 3

```
1 package main
2
3 // Do not edit the class below except for
4 // the insert method. Feel free to add new
5 // properties and methods to the class.
6 type ContinuousMedianHandler struct {
7     Median float64
8 }
9
10 func NewContinuousMedianHandler() *ContinuousMedianHandler {
11     // Write your code here.
12     return nil
13 }
14
15 func (handler *ContinuousMedianHandler) Insert(number int) {
16     // Write your code here.
17 }
18
19 func (handler *ContinuousMedianHandler) GetMedian() float64 {
20     return handler.Median
21 }
22
23 // Implement other methods and classes as needed
24
```

Our Tests

Custom Output

Submit Code

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```
10 test = testrunner.TestRunner()
11
12 test.run('TestRunner TestRunner TestRunner')
13
14 test.run('TestRunner')
15 test.run('TestRunner')
16 test.run('TestRunner')
17 test.run('TestRunner')
18
19
20
21 test.run('TestRunner TestRunner TestRunner')
22
23 test.run('TestRunner')
24 test.run('TestRunner')
25 test.run('TestRunner')
26 test.run('TestRunner')
```

Run or submit code when you're ready.