Solution 1

Run Code

Our Solution(s) Run

```
Run Code
```

Your Solutions

Solution 1 Solution 2 Solution 3

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   class ContinuousMedianHandler:
        def __init__(self):
           self.lowers = Heap(MAX_HEAP_FUNC, [])
           self.greaters = Heap(MIN_HEAP_FUNC, [])
           self.median = None
 8
        \# O(\log(n)) \text{ time } | O(n) \text{ space}
9
10
       def insert(self, number):
            if not self.lowers.length or number < self.lowers.peek():</pre>
11
12
                self.lowers.insert(number)
14
                self.greaters.insert(number)
15
            self.rebalanceHeaps()
16
           self.updateMedian()
17
       def rebalanceHeaps(self):
18
19
           if self.lowers.length - self.greaters.length == 2:
20
                self.greaters.insert(self.lowers.remove())
21
            elif self.greaters.length - self.lowers.length == 2:
                self.lowers.insert(self.greaters.remove())
24
       def updateMedian(self):
           if self.lowers.length == self.greaters.length:
26
                self.median = (self.lowers.peek() + self.greaters.peek())
27
            elif self.lowers.length > self.greaters.length:
28
                self.median = self.lowers.peek()
29
30
                self.median = self.greaters.peek()
31
        def getMedian(self):
33
            return self.median
```

 Our Tests
 Custom Output
 Submit Code



Run or submit code when you're ready.