```
class MedianFinder {

    /** initialize your data structure here. */
    Queue<Integer> min;
    Queue<Integer> max;
    public MedianFinder() {
        min = new PriorityQueue<>();
        max = new PriorityQueue<>((a, b) -> b - a);
    }

    public void addNum(int num) {
        max.offer(num);
        min.offer(max.poll());
        if (min.size() > max.size()) {
            max.offer(min.poll());
        }
    }

    public double findMedian() {
        if (max.size() > min.size()) {
            return max.peek();
        } else {
            return 1.0 * (max.peek() + min.peek()) / 2;
        }
    }
}

/**
 * Your MedianFinder object will be instantiated and called as such:
 * MedianFinder obj = new MedianFinder();
 * obj.addNum(num);
 * double param_2 = obj.findMedian();
 */
```