Given a stream of integers and a window size, calculate the moving average of all integers in the sliding window.

Implement the MovingAverage class:

* MovingAverage(int size) Initializes the object with the size of the window size.
* double next(int val) Returns the moving average of the last size values of the stream.

**Example 1:**

Input  
["MovingAverage", "next", "next", "next", "next"]  
[[3], [1], [10], [3], [5]]  
Output  
[null, 1.0, 5.5, 4.66667, 6.0]  
  
Explanation  
MovingAverage movingAverage = new MovingAverage(3);  
movingAverage.next(1); // return 1.0 = 1 / 1  
movingAverage.next(10); // return 5.5 = (1 + 10) / 2  
movingAverage.next(3); // return 4.66667 = (1 + 10 + 3) / 3  
movingAverage.next(5); // return 6.0 = (10 + 3 + 5) / 3

**Constraints:**

* 1 <= size <= 1000
* -105 <= val <= 105
* At most 104 calls will be made to next.