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703. Kth Largest Element in a Stream

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Design a class to find the kth largest element in a stream. Note that it is the kth largest element in the sorted order, not the kth distinct el

Implement `KthLargest` class:

- `KthLargest(int k, int[] nums)` Initializes the object with the integer `k` and the stream of integers `nums`.

- `int add(int val)` Appends the integer `val` to the stream and returns the element representing the kth largest element in the stream.

Example 1:

```
Input
["KthLargest", "add", "add", "add", "add", "add"]
[[3, [4, 5, 8, 2]], [3], [5], [10], [9], [4]]
Output
[null, 4, 5, 5, 8, 8]

Explanation
KthLargest kthLargest = new KthLargest(3, [4, 5, 8, 2]);
kthLargest.add(3);    // return 4
kthLargest.add(5);    // return 5
kthLargest.add(10);   // return 5
kthLargest.add(9);    // return 8
kthLargest.add(4);    // return 8
```

Constraints:

- $1 <= k <= 10^4$

- $0 <= nums.length <= 10^4$

- $-10^4 <= nums[i] <= 10^4$

- $-10^4 <= val <= 10^4$

- At most 10^4 calls will be made to `add`.

- It is guaranteed that there will be at least `k` elements in the array when you search for the kth element.

Seen this question in a real interview before?   1/4

Yes   No

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