

```
Input
["KthLargest", "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 <= 10⁴
- $0 <= nums.length <= 10^4$
- $-10^4 <= nums[i] <= 10^4$
- $-10^4 <= val <= 10^4$
- At most 10⁴ 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.

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