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1429. First Unique Number

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You have a queue of integers, you need to retrieve the first unique integer in the queue.

Implement the `FirstUnique` class:

• `FirstUnique(int[] nums)` Initializes the object with the numbers in the queue.

• `int showFirstUnique()` returns the value of **the first unique** integer of the queue, and returns **-1** if there is no such integer.

• `void add(int value)` insert `value` to the queue.

Example 1:

Input:

["FirstUnique", "showFirstUnique", "add", "showFirstUnique", "add", "showFirstUnique", "add", "showFirstUnique"]

[[[2,3,5]],[],[5],[2],[3],[]]

Output:

[null,2,null,2,null,3,null,-1]

Explanation:

FirstUnique firstUnique = new FirstUnique([2,3,5]);  
firstUnique.showFirstUnique(); // return 2  
firstUnique.add(5); // the queue is now [2,3,5,5]  
firstUnique.showFirstUnique(); // return 2  
firstUnique.add(2); // the queue is now [2,3,5,5,2]  
firstUnique.showFirstUnique(); // return 3  
firstUnique.add(3); // the queue is now [2,3,5,5,2,3]  
firstUnique.showFirstUnique(); // return -1

Example 2:

Input:

["FirstUnique", "showFirstUnique", "add", "add", "add", "add", "add", "showFirstUnique"]

[[[7,7,7,7,7]],[],[7],[3],[3],[7],[17],[]]

Output:

[null,-1,null,null,null,null,17]

Explanation:

FirstUnique firstUnique = new FirstUnique([7,7,7,7,7]);  
firstUnique.showFirstUnique(); // return -1  
firstUnique.add(7); // the queue is now [7,7,7,7,7,7]  
firstUnique.add(3); // the queue is now [7,7,7,7,7,7,3]  
firstUnique.add(3); // the queue is now [7,7,7,7,7,7,3,3]  
firstUnique.add(7); // the queue is now [7,7,7,7,7,7,3,3,7]  
firstUnique.add(17); // the queue is now [7,7,7,7,7,7,3,3,7,17]  
firstUnique.showFirstUnique(); // return 17

Example 3:

Input:

["FirstUnique", "showFirstUnique", "add", "showFirstUnique"]

[[[809]],[],[809],[]]

Output:

[null,809,null,-1]

Explanation:

FirstUnique firstUnique = new FirstUnique([809]);  
firstUnique.showFirstUnique(); // return 809  
firstUnique.add(809); // the queue is now [809,809]  
firstUnique.showFirstUnique(); // return -1

Constraints:

• 1 <= nums.length <= 10<sup>5</sup>

• 1 <= nums[i] <= 10<sup>8</sup>

• 1 <= value <= 10<sup>8</sup>

• At most 50000 calls will be made to `showFirstUnique` and `add`.

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1

class FirstUnique {

2

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\*/

public FirstUnique(int[] nums) {

}

public int showFirstUnique() {

}

public void add(int value) {

}

}

/\*\*

\* Your FirstUnique object will be instantiated and called as such:

\* FirstUnique obj = new FirstUnique(nums);

\* int param\_1 = obj.showFirstUnique();

\* obj.add(value);

\*/

Problems

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