## 34. First Unique Number

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.

## Code:

```
from collections import deque, defaultdict
class FirstUnique:
       self.queue = deque()
       for num in nums:
            self.add(num)
   def showFirstUnique(self):
       while self.queue and self.count[self.queue[0]] > 1:
       return self.queue[0] if self.queue else -1
   def add(self, value):
           self.queue.append(value)
print(firstUnique.showFirstUnique())
firstUnique.add(5)
print(firstUnique.showFirstUnique())
firstUnique.add(2)
firstUnique.add(3)
print(firstUnique.showFirstUnique())
```

## **Output:**

```
= RESTART: C:\Users\Ga
2
2
3
-1
```

## **Time Complexity:**

• T(n)=O(n)