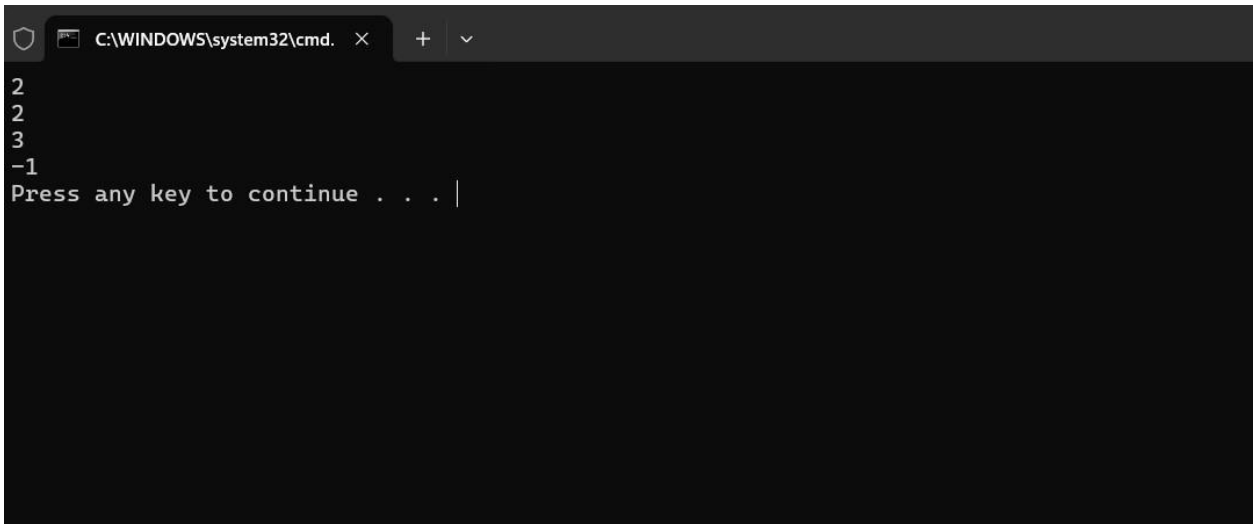
34) First Unique Number You have a queue of integers, you need to retrieve the first unique integer in the queue. Implement the FirstUnique class: ● FirstUnique(int[] nums) Initializes the object with the numbers in the queue. ● int showFirstUnique() returns the value of the first unique integer of the queue, and returns -1 if there is no such integer. ● void add(int value) insert value to the queue.

CODE:

```
from collections import OrderedDict, deque
 class FirstUnique:     def
__init__(self, nums):
self.queue = deque()
self.counts = {}         for
num in nums:
self.add(num)
    def showFirstUnique(self) -> int:         while self.queue
and self.counts[self.queue[0]] > 1:
self.queue.popleft()
        return self.queue[0] if self.queue else -1
    def add(self, value: int) -> None:
        self.counts[value]  =  self.counts.get(value,  0)  +  1
if self.counts[value] == 1:          self.queue.append(value)

firstUnique = FirstUnique([2, 3, 5])
print(firstUnique.showFirstUnique())
firstUnique.add(5)
print(firstUnique.showFirstUnique())
firstUnique.add(2)
print(firstUnique.showFirstUnique())
firstUnique.add(3)
print(firstUnique.showFirstUnique())
```

OUTPUT:



TIME COMPLEXITY : O(m)