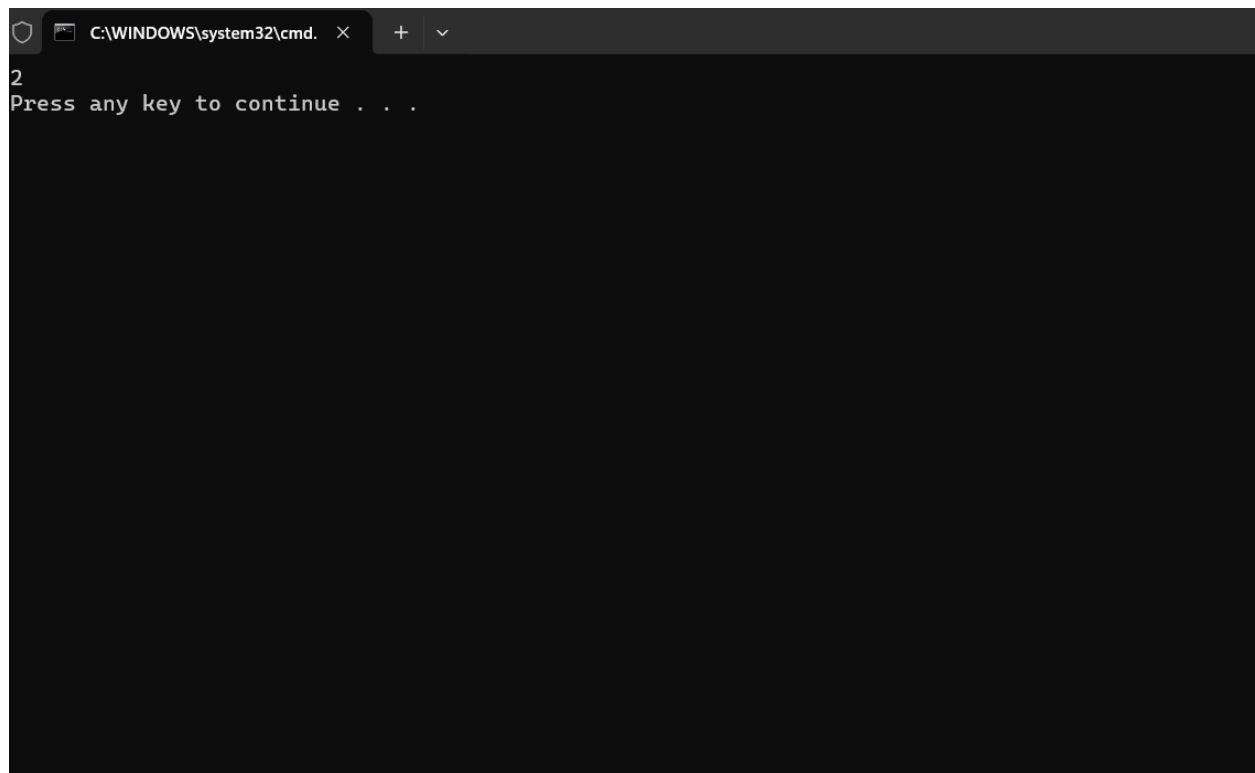


31) Counting Elements Given an integer array arr, count how many elements x there are, such that $x + 1$ is also in arr. If there are duplicates in arr, count them separately. Example Input: arr = [1,2,3] Output: 2
Explanation: 1 and 2 are counted cause 2 and 3 are in arr.

CODE:

```
def count_elements(arr):  
    count = 0  
    num_set = set(arr)  
  
    for x in arr:  
        if x + 1 in num_set:  
            count += 1  
  
    return count  
arr1 = [1, 2, 3]  
  
print(count_elements(arr1))
```

OUTPUT:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output '2' on the first line and 'Press any key to continue . . .' on the second line, indicating the program has finished execution.

TIME COMPLEXITY : $O(n)$