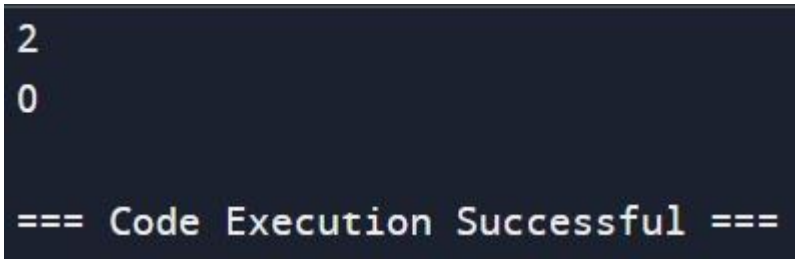
1. Counting Elements Given an integer array arr, count how many elements x there are, such that x + 1 is also in arr. If there are duplicates in arr, count them separately. Example Input: arr = [1,2,3] Output: 2 Explanation: 1 and 2 are counted cause 2 and 3 are in arr. Example 2: Input: arr = [1,1,3,3,5,5,7,7] Output: 0 Explanation: No numbers are counted, cause there is no 2, 4, 6, or 8 in arr. Constraints: ● 1 <= arr.length <= 1000 ● 0 <= arr[i] <= 1000

Program:-

```
def count_elements(arr):
   return sum(1 for x in arr if x + 1 in arr)

# Test the function with examples
print(count_elements([1, 2, 3]))  # Output: 2
print(count_elements([1, 1, 3, 3, 5, 5, 7, 7]))
```

output:-



Time complexity:-O(n)