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.

PROGRAM:

```
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:

```
PS C:\Users\chall\OneDrive\Desktop\DAA> & C:/Users/chall/AppData/Local/Programs/Python/Python312/python.exe
"
2
PS C:\Users\chall\OneDrive\Desktop\DAA>
```

TIME COMPLEXITY:

Time complexity for the above code is

f(n)=O(n)