Counting elements in two arrays

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Problem **E** Editorial (Submissions Comments Counting elements in two arrays □ Ĥ Difficulty: Medium Accuracy: 37.12% Submissions: 95K+ Points: 4 Average Time: 20m You are given two unsorted arrays a[] and b[]. Both arrays may contain duplicate elements. For eac' element in a[], your task is to count how many elements in b[] are less than or equal to that elemer **Examples: Input:** a[] = [4, 8, 7, 5, 1], b[] = [4, 48, 3, 0, 1, 1, 5] Output: [5, 6, 6, 6, 3] **Explanation:** For a[0] = 4, there are 5 elements in b (4, 3, 0, 1, 1) that are \leq 4. For a[1] = 8 and a[2] = 7, there are 6 elements in b that are \leq 8 and \leq 7. For a[3] = 5, there are 6 elements in b that are \leq 5. For a[4] = 1, there are 3 elements in b (0, 1, 1) that are \leq 1. **Input:** a[] = [10, 20], b[] = [30, 40, 50] **Output:** [0, 0] **Explanation:** For a[0] = 10 and a[1] = 20, there are no elements in b that are less than or equal to 10 or 20. Hence, the output is [0, 0]. **Constraints:** $1 \le a.size(), b.size() \le 10^5$ $0 \leq a[i],\,b[j] \leq 10^{\textstyle 5}$ Try more examples **Expected Complexities Company Tags** Menu

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```
Python3
                    Start Timer ()
                                                                       class Solution:
 2
        def countLessEq(self, a, b):
3
           # code here
 4
           n = len(a)
 5
           m = len(b)
       # Result array to store counts, initialized with zeros
 6
           res = [0] * n
 7
        # Pair each element of a[] with its original index to preserve order
8
           aIndexed = [(val, idx) for idx, val in enumerate(a)]
9
10
        # Sort the paired array and b[]
           aIndexed.sort()
11
            b.sort()
12
           ind = 0 # Pointer for b[]
13
        # For each element in sorted a[]
14
           for val, originalIndex in aIndexed:
15
16
            # Move ind until b[ind] > current val
17
               while ind < m and b[ind] <= val:</pre>
18
                   ind += 1
19
20
            # Store the count at the correct position
21
               res[originalIndex] = ind
22
           return res
23
24
```

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