H   **Domains**   **Contests**   **Rank**   **Leaderboard**   **Jobs**   🔍   Ankush23s

Points: 330.43 Rank: 7831

No Idea!

by sandyeep

Problem	**Submissions**	**Leaderboard**	**Discussions**	**Editorial** 🔒

There is an array of n integers. There are also 2 **disjoint sets**, A and B, each containing m integers. You like all the integers in set A and dislike all the integers in set B. Your initial happiness is 0. For each i integer in the array, if $i \in A$, you add 1 to your happiness. If $i \in B$, you add -1 to your happiness. Otherwise, your happiness does not change. Output your final happiness at the end.

Note: Since A and B are sets, they have no repeated elements. However, the array might contain duplicate elements.

Constraints
$1 \le n \le 10^5$
$1 \le m \le 10^5$
$1 \le Any\ integer\ in\ the\ input \le 10^9$

Input Format

The first line contains integers n and m separated by a space.
The second line contains n integers, the elements of the array.
The third and fourth lines contain m integers, A and B, respectively.

Output Format

Output a single integer, your total happiness.

Sample Input

```
3 2
1 5 3
3 1
5 7
```

Sample Output

```
1
```

Explanation

You gain 1 unit of happiness for elements 3 and 1 in set A. You lose 1 unit for 5 in set B. The element 7 in set B does not exist in the array so it is not included in the calculation.

Hence, the total happiness is $2 - 1 = 1$.

f ✔ in

Submissions: 7940

Max Score: 50

Difficulty: Medium

Rate This Challenge:
★★★★★

More

Current Buffer (saved locally, editable) ᛦ 🕓   Python 2 ⌄   ⤢ ⚙

```
 1  n = raw_input()
 2  sn = n.split()
 3  sn_map = map(int,sn)
 4
 5  l = raw_input()
 6  sl = l.split()
 7  sl_map = map(int,sl)
 8
 9  A = raw_input()
10  sA = A.split()
11  sA_map = map(int,sA)
12
13  B = raw_input()
14  sB = B.split()
15  sB_map = map(int,sB)
16
17  A_set = set(sA_map)
18  B_set = set(sB_map)
19  AB_Inter = A_set.intersection(B_set)
20  A_set = A_set.difference(AB_Inter)
21  B_set = B_set.difference(AB_Inter)
22  count_A = 0
23  count_B = 0
24  for i in sl_map:
25      for j in A_set:
26          if [i].pop() == {j}.pop() :
27              count_A = count_A+1
28
29  for i in sl_map:
30      for k in B_set:
31          if [i].pop() == {k}.pop():
32              count_B = count_B+1
33
34  print(count_A-count_B)
35
36
```

Line: 35 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   [Run Code] [Submit Code]

Terminated due to timeout

✔ Test Case #0	✔ Test Case #1	✔ Test Case #2
🕐 Test Case #3	🕐 Test Case #4	🕐 Test Case #5
🕐 Test Case #6	✔ Test Case #7	

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