No Idea!

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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

$1 \leq n \leq 10^5$

$1 \leq m \leq 10^5$

$1 \leq Any\ integer\ in\ the\ input \leq 10^9$

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 $2 - 1 = 1$.

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Difficulty Medium

Max Score 50

Submitted By 92894

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```
# Enter your code here. Read input from STDIN. Print output to STDOUT

n,m=map(int,input().split())
arr=map(int,input().split())
s1=set(map(int,input().split()))
s2=set(map(int,input().split()))
c=0
for i in arr:
    if i in s1:
        c=c+1
    if i in s2:
        c=c-1

print(c)

another using intersection method
#h=0
#l=arr1-set(s1)
#l1=n-len(l)
#l2=arr1-set(s2)
#l22=n-len(l2)
#ll=l1-l22
#print(ll)
#h=h+l

#l=set(arr).intersection(s1)
#l2=set(arr).intersection(s2)

#h=h+len(l)-len(l2)
```

Line: 32 Col: 13

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Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Test case 7

Compiler Message

Success

Input (stdin) Download

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

Expected Output Download

```
1
```