



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

$$1 \leq n \leq 10^5$$

$$1 \leq m \leq 10^5$$

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

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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Language

Pypy 3



```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 if __name__ == "__main__":
3     n, m = map(int, input().split())
4     array = list(map(int, input().split()))
5     A = set(map(int, input().split()))
6     B = set(map(int, input().split()))
7
8     happiness = 0
9     for i in array:
```

```
10         if i in A:
11             happiness += 1
12         if i in B:
13             happiness -= 1
14     print(happiness)
15
16
```

EMACS

Line: 16 Col: 1

 Upload Code as File

☐ Test against custom input

Run Code

Submit Code

✔ Test case 0

Compiler Message

Success

✔ Test case 1

🔒

✔ Test case 2

🔒

Input (stdin)

13 2

21 5 3

33 1

45 7

Download

✔ Test case 3

🔒

✔ Test case 4

🔒

✔ Test case 5

🔒

Expected Output

11

Download

✔ Test case 6

🔒

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