



Practice > Python > Sets > No Idea!

No Idea! ☆

70/115 challenges solved

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Problem

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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 $2 - 1 = 1$.

Author

sandydeep

Difficulty

Medium

Max Score

50

Submitted By

30192

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Current Buffer (saved locally, editable) Python 3

```
1 n,m=[int(i) for i in input().split()]
2 array=input().split()
3 a=set(input().split())
4 b=set(input().split())
5 happy=0
6 for i in array:
7     if(i in a):
8         happy=happy+1
9     elif(i in b):
10        happy=happy-1
11 print(happy)
```

Line: 9 Col: 15

Upload Code as File ☐ Test against custom input

Run Code

Submit Code



You have earned 50.00 points!

70/115 challenges solved.

61%

Congratulations

You solved this challenge. Would you like to challenge your friends?



Next
Challenge

✔ Testcase 0

✔ Testcase 1

✔ Testcase 2

✔ Testcase 3

8 Testcases

Input (stdin)

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Expected Output

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

1

Compiler Message

Success