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Set .difference() Operation ☆

75/115 challenges solved

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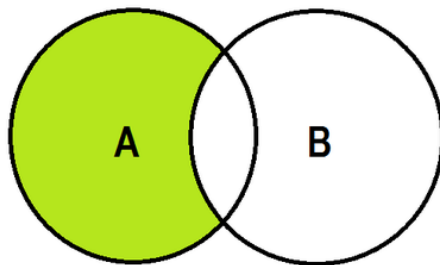
Problem

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**A.difference(B) or A - B**

By DOSHI

.difference()

The tool `.difference()` returns a set with all the elements from the set that are not in an iterable. Sometimes the `-` operator is used in place of the `.difference()` tool, but it only operates on the set of elements in `set`.

Set is immutable to the `.difference()` operation (or the `-` operation).

```
>>> s = set("Hacker")
>>> print s.difference("Rank")
set(['c', 'r', 'e', 'H'])

>>> print s.difference(set(['R', 'a', 'n', 'k']))
set(['c', 'r', 'e', 'H'])

>>> print s.difference(['R', 'a', 'n', 'k'])
set(['c', 'r', 'e', 'H'])

>>> print s.difference(enumerate(['R', 'a', 'n', 'k']))
set(['a', 'c', 'r', 'e', 'H', 'k'])

>>> print s.difference({"Rank":1})
set(['a', 'c', 'e', 'H', 'k', 'r'])

>>> s - set("Rank")
set(['H', 'c', 'r', 'e'])
```

Author

DOSHI

Difficulty

Easy

Max Score

10

Submitted By

23039

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Task

Students of District College have a subscription to *English* and *French* newspapers. Some students have subscribed to only the *English* newspaper, some have subscribed to only the *French* newspaper, and some have subscribed to both newspapers.

You are given two sets of student roll numbers. One set has subscribed to the *English* newspaper, and one set has subscribed to the *French* newspaper. Your task is to find the total number of students who have subscribed to *only English* newspapers.

Input Format

The first line contains the number of students who have subscribed to the *English* newspaper.

The second line contains the space separated list of student roll numbers who have subscribed to the *English* newspaper.

The third line contains the number of students who have subscribed to the *French* newspaper.

The fourth line contains the space separated list of student roll numbers who have subscribed to the *French* newspaper.

Constraints

$0 < \text{Total number of students in college} < 1000$

Output Format

Output the total number of students who are subscribed to the *English* newspaper *only*.

Sample Input

```
9
1 2 3 4 5 6 7 8 9
9
10 1 2 3 11 21 55 6 8
```

Sample Output

```
4
```

Explanation

The roll numbers of students who *only* have *English* newspaper subscriptions are:

4, 5, 7 and **9**.

Hence, the total is **4** students.

Current Buffer (saved locally, editable)



Python 3



```
1 n=int(input())
2 a=set(input().split())
3 m=int(input())
4 b=set(input().split())
5 print(len(a-b))
```


Line: 5 Col: 11

 Upload Code as File

☐ Test against custom input

Run Code

Submit Code






You have earned 10.00 points!
75/115 challenges solved.

65%

Congratulations


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



Next Challenge

-  Testcase 0
-  Testcase 1
-  Testcase 2
-  Testcase 3

6 Testcases

| Input (stdin) | Download | Expected Output | Download |
|--|--|-----------------|----------|
| 9 1 2 3 4 5 6 7 8 9 9 10 1 2 3 11 21 55 6 8 |  | 4 | |
| Compiler Message | | | |
| Success | | | |