



Set .symmetric_difference() Operation ☆

76/115 challenges solved

Rank: 3531 | Points: 1525



Your Set .symmetric_difference() Operation submission got 10.00 points.

Share

Tweet

[Try the next challenge](#) | [Try a Random Challenge](#)

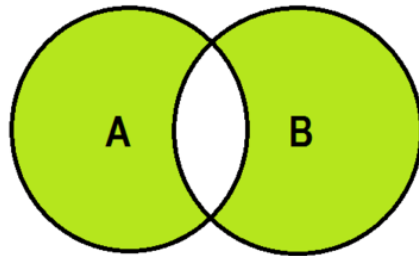
Problem

Submissions

Leaderboard

Discussions

Editorial



A.symmetric_difference(B) or A^B

by DOSHI

.symmetric_difference()

The `.symmetric_difference()` operator returns a set with all the elements that are in the set and the iterable but not both.

Sometimes, a `^` operator is used in place of the `.symmetric_difference()` tool, but it only operates on the set of elements in `set`.

The set is immutable to the `.symmetric_difference()` operation (or `^` operation).

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

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

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

>>> print s.symmetric_difference(enumerate(['R', 'a', 'n', 'k']))
set(['a', 'c', 'e', 'H', (0, 'R'), 'r', (2, 'n'), 'k', (1, 'a'), (3, 'k')])

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

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

Author

DOSHI

Difficulty

Easy

Max Score

10

Submitted By

22951

NEED HELP?

[View discussions](#)[View editorial](#)[View top submissions](#)

RATE THIS CHALLENGE



MORE DETAILS

[Download problem statement](#)[Download sample test cases](#)[Suggest Edits](#)

Task

Students of District College have subscriptions to *English* and *French* newspapers. Some students have subscribed to *English* only, some have subscribed to *French* only, 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 either the *English* or the *French* newspaper but *not both*.

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 total number of students who have subscriptions to the *English* or the *French* newspaper but *not both*.

Sample Input

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

Sample Output

```
8
```

Explanation

The roll numbers of students who have subscriptions to *English* or *French* newspapers but *not both* are:

4, 5, 7, 9, 10, 11, 21 and **55**.

Hence, the total is **8** students.

Current Buffer (saved locally, editable)



Python 3



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


Line: 5 Col: 16

Upload Code as File

☐ Test against custom input

Run Code

Submit Code



You have earned 10.00 points!

76/115 challenges solved.

66%

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		8	
Compiler Message			
Success			