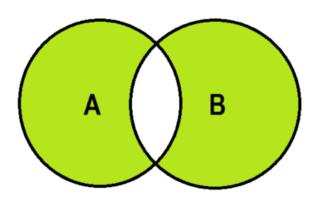
Set .symmetric_difference() Operation



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 $^{\land}$ 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'])
```

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

 $0 < Total\ number\ of\ students\ in\ college < 1000$

Output Format

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

Sample Input

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

Sample Output

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.