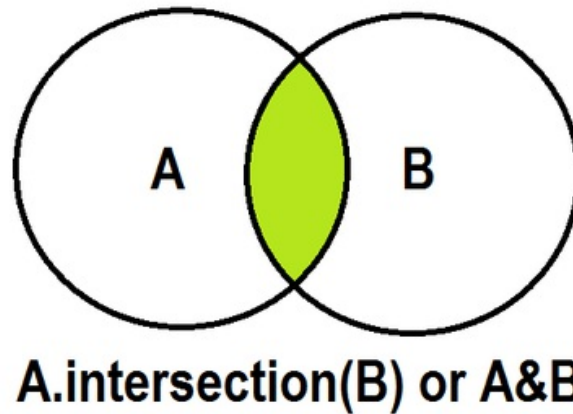


# Set .intersection() Operation



By DOSHI

## .intersection()

The `.intersection()` operator returns the intersection of a set and the set of elements in an iterable. Sometimes, the `&` operator is used in place of the `.intersection()` operator, but it only operates on the set of elements in `set`.

The set is immutable to the `.intersection()` operation (or `&` operation).

```
>>> s = set("Hacker")
>>> print s.intersection("Rank")
set(['a', 'k'])

>>> print s.intersection(set(['R', 'a', 'n', 'k']))
set(['a', 'k'])

>>> print s.intersection(['R', 'a', 'n', 'k'])
set(['a', 'k'])

>>> print s.intersection(enumerate(['R', 'a', 'n', 'k']))
set([])

>>> print s.intersection({"Rank":1})
set([])

>>> s & set("Rank")
set(['a', 'k'])
```

## Task

The students of District College have subscriptions to *English* and *French* newspapers. Some students have subscribed only to *English*, some have subscribed only to *French*, and some have subscribed to both newspapers.

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

## Input Format

The first line contains ***n***, the number of students who have subscribed to the *English* newspaper.  
The second line contains ***n*** space separated roll numbers of those students.  
The third line contains ***b***, the number of students who have subscribed to the *French* newspaper.  
The fourth line contains ***b*** space separated roll numbers of those students.

## Constraints

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

## Output Format

Output the total number of students who have subscriptions to **both** *English* and *French* newspapers.

## Sample Input

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

## Sample Output

```
5
```

## Explanation

The roll numbers of students who have *both* subscriptions:

**1, 2, 3, 6** and **8**.

Hence, the total is **5** students.