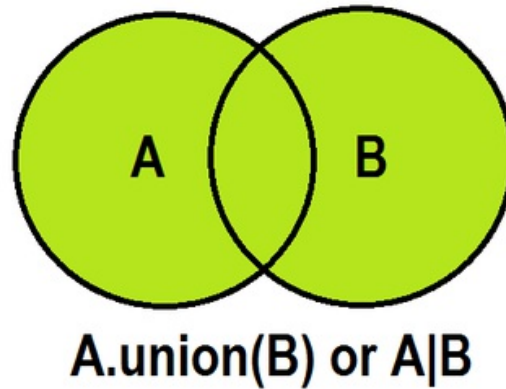


# Set .union() Operation

## Problem Statement



BY DOSHI

## .union()

.*union()* operator returns the union of set and the set of elements in an iterable.

Sometimes '|' operator is used in place of .*union()* operator but it operates only on the set of elements in *set*.

Set is immutable to .*union()* operation (or '|' operation).

## Example

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

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

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

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

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

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

## Task

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

You are given two sets of roll numbers of students, who have subscribed to *English* and *French* newspapers. Your task is to find total number of students who have subscribed to *at least one* newspaper.

**Input Format**

First line contains, number of students who have subscribed to *English* newspaper.  
Second line contains, space separated list of roll numbers of students, who have subscribed to *English* newspaper.  
Third line contains, number of students who have subscribed to *French* newspaper.  
Fourth line contains, space separated list of roll numbers of students, who have subscribed to *French* newspaper.

**Constraints**

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

**Output Format**

Output total number of students who have *at least one* subscription.

**Sample Input**

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

**Sample Output**

```
13
```

**Explanation**

Roll numbers of students who have *atleast one* subscription:  
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 21 and 55.  
Hence, total is **13** students.