# **Gemstones**



There is a collection of rocks where each rock has various minerals embedded in it. Each type of mineral is designated by a lowercase letter in the range ascii[a-z]. There may be multiple occurrences of a mineral in a rock. A mineral is called a *gemstone* if it occurs at least once in each of the rocks in the collection.

Given a list of minerals embedded in each of the rocks, display the number of types of gemstones in the collection.

# **Example**

```
arr = ['abc', 'abc', 'bc']
```

The minerals  $m{b}$  and  $m{c}$  appear in each rock, so there are  $m{2}$  gemstones.

### **Function Description**

Complete the *gemstones* function in the editor below.

gemstones has the following parameter(s):

• *string arr[n]:* an array of strings

#### Returns

• int: the number of gemstones found

#### **Input Format**

The first line consists of an integer n, the size of arr.

Each of the next n lines contains a string arr[i] where each letter represents an occurrence of a mineral in the current rock.

#### **Constraints**

```
1 \leq n \leq 100
1 \leq | \operatorname{arr[i]} | \leq 100
```

Each composition arr[i] consists of only lower-case Latin letters ('a'-'z').

## **Sample Input**

```
STDIN Function
-----
3 arr[] size n = 3
abcdde arr = ['abcdde', 'baccd', 'eeabg']
baccd
eeabg
```

#### Sample Output

# Explanation

Only  ${\it a}$  and  ${\it b}$  occur in every rock.