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# Gemstones ☆

## Problem

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John has collected various rocks. 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 John's collection.

Given a list of minerals embedded in each of John's rocks, display the number of types of gemstones he has in his collection.

For example, the array of mineral composition strings `arr = [abc, abc, bc]`. The minerals `b` and `c` appear in each composite, so there are **2** gemstones.

### Function Description

Complete the *gemstones* function in the editor below. It should return an integer representing the number of gemstones found in the list of rocks.

*gemstones* has the following parameter(s):

- `arr`: an array of strings

### 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

$$1 \leq n \leq 100$$

$$1 \leq |arr[i]| \leq 100$$

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

### Output Format

Print the number of types of gemstones in John's collection. If there are none, print 0.

### Sample Input

```
3
abcdde
baccd
eeabg
```

### Sample Output

```
2
```

### Explanation

Only  $a$  and  $b$  are gemstones because they are the only types that occur in every rock.