

# Gemstones



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.