# **Gem Stones**



John has discovered various rocks. Each rock is composed of various elements, and each element is represented by a lowercase latin letter from 'a' to 'z'. An element can be present multiple times in a rock. An element is called a 'gem-element' if it occurs at least once in each of the rocks.

Given the list of N rocks with their compositions, display the number of gem-elements that exist in those rocks.

## **Input Format**

The first line consists of **N**, the number of rocks.

Each of the next N lines contain rocks' composition. Each composition consists of lowercase letters of English alphabet.

## **Output Format**

Print the number of gem-elements that are common in these rocks. If there are none, print 0.

#### **Constraints**

 $1 \le N \le 100$ 

Each composition consists of only small latin letters ('a'-'z').

 $1 \le \text{Length of each composition} \le 100$ 

# **Sample Input**

3 abcdde baccd eeabg

# **Sample Output**

2

# **Explanation**

Only "a", "b" are the two kind of gem-elements, since these are the only characters that occur in each of the rocks' composition.