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Gemstones

 by [darkshadows](#)[Problem](#)[Submissions](#)[Leaderboard](#)[Discussions](#)[Editorial](#)[Topics](#)

John has discovered various rocks. Each rock is composed of various elements, and each element is represented by a lower-case 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 an integer, N , the number of rocks.

Each of the next N lines contains a rock's composition. Each composition consists of lower-case letters of English alphabet.

Constraints

$$1 \leq N \leq 100$$

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

$$1 \leq \text{length of each composition} \leq 100$$

Output Format

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

Sample Input

```
3
abcdde
baccd
eeabg
```



Sample Output

```
2
```

Explanation

Only "a" and "b" are the two kinds of gem-elements, since these are the only characters that occur in every rock's composition.

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```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11     }
12 }
```

Line: 1 Col: 1

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