




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.

[f](#) [t](#) [in](#)Submissions: [62190](#)

Max Score: 20

Difficulty: Easy


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Java 7   

```
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     static int gemstones(String[] arr){
10         // Complete this function
11     }
12
13     public static void main(String[] args) {
14         Scanner in = new Scanner(System.in);
15         int n = in.nextInt();
16         String[] arr = new String[n];
17         for(int arr_i = 0; arr_i < n; arr_i++){
18             arr[arr_i] = in.next();
19         }
20         int result = gemstones(arr);
21         System.out.println(result);
22     }
23 }
24
```

Line: 1 Col: 1

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