Gemstones



Problem Statement

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 \le N \le 100\$

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

\$1 \le\$ length of each composition \$\le 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.