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# Problem H <br> Longest Common Substring <br> Time Limit: 1 Second 

Given a list of strings, what is the longest substring common to all of them?

## Input

The first line of input contains an integer $n(1 \leq n \leq 1,000)$, which is the number of strings that follow.

Each of the next $n$ lines contains a single string $s(1 \leq|s| \leq 100)$ consisting only of lower-case letters.

## Output

Output a single integer, which is the length of the longest substring common to all of the input strings.

| Sample Input 1 | Sample Output 1 |
| :--- | :--- |
| 5 | 3 |
| axabcrwmvd <br> abcn <br> tabchwqs 1 <br> bvrkabcayna <br> tyabc |  |

