

Longest Common Prefix in an Array

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Given a array of n strings, find the longest common prefix among all strings present in the array.

Input:

The first line of the input contains an integer T which denotes the number of test cases to follow. Each test case contains an integer n. Next line has space separated n strings.

Output:

Print the longest common prefix as a string in the given array. If no such prefix exists print "-1"(without quotes).

Constraints:

$1 \leq T \leq 200$

$1 \leq n \leq 100$

$1 \leq |S| \leq 100$

Example:

Input:

2

4

geeksforgeeks geeks geek geezer

3

apple ape april

Output:

gee

ap