**Longest Common Prefix in an Array**

Show Topic Tags   

[VMWare](http://practice.geeksforgeeks.org/company/VMWare/)

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<=T<=200  
1<=n<=100  
1<=|S|<=100  
  
**Example:  
Input:**  
2  
4  
geeksforgeeks geeks geek geezer  
3  
apple ape april  
  
**Output:**  
gee  
ap

\*\*For More Examples Use Expected Output\*\*

Contributor: Shashwat Jain

<http://practice.geeksforgeeks.org/problems/longest-common-prefix-in-an-array/0>

/\*

\* To change this template, choose Tools | Templates

\* and open the template in the editor.

\*/

package javaapplication250;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.math.BigInteger;

import java.util.Arrays;

import java.util.HashMap;

import java.util.HashSet;

import java.util.LinkedHashSet;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication250 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws IOException {

// TODO code application logic here

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int t = Integer.parseInt(br.readLine());

while(t-- > 0) {

int n = Integer.parseInt(br.readLine().trim());

String[] s = br.readLine().trim().split(" ");

int minLen = Integer.MAX\_VALUE;

String minPal = "";

int i =0;

for(i =0; i<s.length; i++) {

if(s[i].length() < minLen) {

minLen = s[i].length();

minPal = s[i];

}

}

String ans = "-1";

for (int j = minLen; j > 0; j--)

{

for (i = 0; i < s.length; i++)

{

if (!s[i].substring(0, j).equals(minPal.substring(0, j)))

{

//Console.WriteLine( s[i].Substring(0, j) + " " + (minPal.Substring(0, j)));

break;

}

}

if (i == s.length)

{

//System.out.println(minPal.substring(0,j));

ans = (minPal.substring(0,j));

break;

}

}

System.out.println(ans);

}

}

}