Problem A
Elon Ma Wants to Protect His Secrets

Time limit: **3 seconds**
Memory limit: **1024 megabytes**

Problem Description

Elon Ma writes mysterious binary numbers in his notebook to represent secret dates or serial numbers. However, Download Trump always sneaks a peek at his notes.

Tired of this, Elon Ma decides to encrypt his secrets using a technique he learned from his computer science class – a bitwise XOR mask – which he calls the Elon Mask.

For example, if the secret is `1011001` and the Elon Mask is `1101101`, the encrypted value will be:

$$\begin{array}{r} 1011001 \\ \oplus 1101101 \\ \hline 0110100 \end{array}$$

Elon writes only the encrypted values in his notebook.

But doing the encryption manually every time is just too exhausting for Elon Ma.

Please write a program to help him out!

Input Format

The first line contains an integer $T(1 \leq T \leq 100)$, the number of test cases.

Each test case begins with a line containing: An integer $n(1 \leq n \leq 10)$, the number of encrypted binary strings. Followed by a binary string mask – the Elon Mask (length L)

The next n lines, each line contains a sequence of L binary digits (consist with `0`s and `1`s), representing the encrypted values.

Output Format

For each encrypted value, output the original secret binary string obtained by applying XOR with the Elon Mask.

Each result should be printed on a separate line.

Technical Specification

- $1 \leq T \leq 100$
- $1 \leq n \leq 10$
- The mask and the encrypted values consist only of `0` and `1`, and all of them have the same length $L(1 \leq L \leq 100)$ within each test case.

Sample Input 1

```
1
3 1101101
0110100
1010000
0000000
```

Sample Output 1

```
1011001
0111101
1101101
```