Bloomberg
CODECON

Memory Limit: 1024 MB
Time Limit: 5 s

Tripple Check (50 points)

Introduction

In the harsh space environment its not unusual for radiation to affect the electronic systems onboard a satellite. One of the common problems seen is memory corruption that alters random bits of memory.

In order to limit this effect everything is stored on multiple storage units where various techniques are used to read data by combining the data from all storage units. The simplest technique is to pick the most occurring value.

Write a program that reads data from these three storage units and produces the corrected result.

Input Specifications

Your program will take

- **N** on the first line, where **N** is number of storage units in use
- Followed by **N** lines of text each of which represents a data reading from the storage units

Output Specifications

Print out

- The corrected line of text

Sample Input/Output

Input

```
3
helmo
hello
hello
```

Output

```
hello
```

Explanation

The values for the first three characters and the last character **h**,**e**,**l** and **o** all match so no correction needed, the 4th character however has one mismatch and as such is corrected to **l** because its the most occuring value. The final corrected output therefore is **hello**

Input

```
4
101011101110111
001010101011101
```

```
1011110100010001
1110000111010100
```

Output

```
1010101010101010
```