No Such Agency

Antonio got involved in some shady business. It all started with a casual walk through the dark web or something. Anyway, he is now committed to working for the Anonymous organization to help them detect a special type of watermarking that some three-letter agencies insert in their communications to track their on-line activities. As I said, this is very shady spy-work.

The Anonymous organization believes that their nemesis three-letter agencies inject their three-letter code within their communication. Antonio must therefore sift through their communications and flag those messages that contain a given three-letter code. You must now help Antonio by writing a program that takes a three-letter code and a message text, and flags the text if the three letters appear anywhere in the text, not necessarily in a contiguous group of three, but in the given order.

Input

The first line of input contains the positive number, $n \leq 100$, of cases that Antonio has to check. The input then continues with n pairs of lines, each representing one case. For each case i ($1 \leq i \leq n$) the first line contains a three-letter code C_i and the second line contains a text T_i of up to 10000 characters.

Output

For each case number i in which T_i contains code C_i, output a single line containing the number i. The case numbers in the output must be printed in increasing order.

Examples

Sample input 1

```
4
CIA
THIS IS AN INNOCENT MESSAGE
NSA
THERE IS NO SUCH AGENCY
KGB
HACKERS OF THE WORLD UNITE!
KGB
WE WILL HOLD OUR HACKING CONVENTION AT BAR OOPS!
```

Sample output 1

```
2
4
```

Limits

Time limit is 2 seconds.

Memory limit is 1024 megabytes.