Q3. No Fishing! (25%)

Please design a program that can filter messages with banned words in a chat room, and the one who sent this message will get one warning. Once a person gets three warnings, all messages will be ignored in the chat room.

The comparison between the banned words and messages should be

The comparison between the banned words and messages should be case-sensitive.

• Input Format

The first line will contain an integer n and a string of the **banned word**. n represents the number of following messages you need to filter. The **banned word** is the word that should not appear in the chat room after filtering. In the next n lines, the format of input messages will be **name: message.**

• Output Format

For each input except the first line, the program outputs the line directly if the *name* does not get three warnings, and the *message* does not contain the *banned word*.

If the *name* has got three warnings, then the program print "name is banned." for that line.

Notice that you only need to filter the *banned words* in the message. If the *banned word* appear in the *name*, you don't need to filter it.

• Technical Specifications

- 1 < n < 1000
- **Banned word** is a string that only contains the alphabet and number characters. The length of **banned word** will not exceed 128 characters.
- *Name* is a string that only contains alphabet and number characters. The length of it will not exceed 20 characters.
- *Message* consists of several strings, which are split by spaces. Each string consists of ASCII code from 32 to 126, which is basically all printable characters.
- The length of *name: message* will not exceed 4095.

• There are some restrictions you need to follow:

1. You are not allowed to include <string.h> or other libraries with functions about string process.

Input Example	Output Example
11 easy	Tozy: Weeeeeee!!!!!!
Tozy: Weeeeeee!!!!!!	NaNin: Hi, guys <3
Ruwan: I'm UC genius. So	NaNin: I'm 159cm!
easy.	8tan: Easy.
NaNin: Hi, guys <3	Ruwan: You should play

NaNin: I'm 159cm!

8tan: Easy.

Ruwan: Yeah, eeeeeasy. Ruwan: You should play

other games.

Ruwan: This game is too

easy.

Ruwan: Why don't you

change games?
Ruwan: Hello?

HaHa: ea sy lolllll

other games.

Ruwan is banned.

HaHa: ea sy lolllll