

2712 - Software for Searching

Description

Nanao Ise the **ViceCaptain** of first division of Gotei 13 is developing a software for searching of Shinigami familiars in the Seireitei. Familiars are those people who share the first surname. She request to the **Captain** Syunsui Kyoraku for some help, Syunsui is a good warrior but a bad programmer. Then Syunsui requested you to help Nanao.

You have the names and first surnames of each member in the Seireitei. Your task is to develop a software capable of searching the number of familiars of any Shinigami in the Seireitei.

Input specification

The first line contain a integer number $1 \leq N \leq 1000$, the amount of people in the Seireitei. The following N lines contains a space-separated pair of words, the name and first surname of the i -th member in the Seireitei for $1 \leq i \leq N$. The next line contain a integer number $1 \leq T \leq 1000$, the amount of Shinigamis for searching. The following T lines contains a space-separated pair of words, the name and first surname of the j -th Shinigami for $1 \leq j \leq T$. You can safely assume that names and surnames will be always capitalized words of at most 12 characters.

Output specification

You must print T lines, each one containing the number of familiars of the j -th Shinigami in the Seireitei for $1 \leq j \leq T$.

Sample input

```
5
Urahara Fong
Sado Kotetsu
Inoue Iba
Kon Muguruma
Shinje Iba
3
Sui Feng
Isane Kotetsu
Tetsuzaemon Iba
```

Sample output

0
1
2

Hint(s)

Source	The 1st Jamaican Programming Cup - Yonny Mondelo Hernández
Added by	ymondelo20
Addition date	2014-02-26
Time limit (ms)	45000
Test limit (ms)	1000
Memory limit (kb)	256000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text