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Freshers and Name problem ✓

Problem code: CDQU01

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New Session of IERT has started. Freshers come to college with lot of Buzz of seniors, who may come to interact with them or take their ragging. Mostly they saw that their seniors comes and ask for "INTRO" and they have to again repeat their introduction "My name is ...".

But later they realized one thing that they themselves are not able to remember name of their friends so, they put their teasing names for friends based on certain characteristics like Shubham Singh becomes sebu, Gyandeep becomes GD, Pawan becomes scientist, Kripa shanker becomes Kp and so on.

True name and their new nick names will be provided to you in advance.

Your task is to answer **Q** queries in which you have to print their real names from their new nick names.

If trueName for that nick name is not found print "Name not found" (without quotes).

Q strings denoting new names will be provided to you.

Note:- Name doesn't contain space i.e. "Ajay Pandey" is invalid. "AjayPandey" is valid

Input

First line of input contains two integer **N** denoting the number of friends and **Q** numbers of queries.

Next **N** lines contains two space separated strings **trueName** and **newName**.

After that **Q** lines contain a single string denoting new names.

Output

For each test case, print a single string in a line corresponding to the true name.

Constraints

$1 \leq |trueName|, |newName| \leq 100$

$1 \leq N, Q \leq 10000$

Sum of All test files doesn't exceed 2MB

Example

Input:

5 4

Gyandeep GD

Shubham sebu

Pawan scientist

Pawan Scientist
 Prakhar rangua
 Aadil wikipedia
 sebu
 GD
 rangua
 kp
Output:
 Shubham
 Gyandeep
 Prakhar
 Name not found

Explanation

True or real name of sebu is Shubham and so on...

kp is not found as not provided in above list of trueName and newName

Author: kripa432

Tags: kripa432

Date Added: 21-03-2016

Time Limit: 1 sec

Source
 Limit: 50000 Bytes

Languages: C, CPP 4.9.2, JAVA

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