## Student Info

Chulalongkorn University's Engineering student information consists of nickname, group, generation and department. Write a program to show information of students within a group, generation, or/and department we want, arrange it in alphabetical order according to nicknames.

## Input

The first line is Integer n represent a number of student information

For N lines after, describe each student information, consist of nickname, group, generation and department. (Nickname are guaranteed not be the same)

The last line describe group, generation and/or department to find and show student information (Might not have all three information and might not be in the same order)

## Output

Show student information that have input group, generation and department, arrange it in alphabetical order. Show **Not Found** if there are no valid student information

## Example

Input (from keyboard)	Output (on screen)
8 Krit A 97 CP Oat A 98 CE Pim C 99 CP Pun C 97 CHE Jame Dog 100 CE Art C 97 CP Benz Dog 99 CP Mark C 100 CP CP C	Art C 97 CP Mark C 100 CP Pim C 99 CP
8 Krit A 97 CP Oat A 98 CE Pim C 99 CP Pun C 97 CHE Jame Dog 100 CE Art C 97 CP Benz Dog 99 CP Mark C 100 CP CP 97	Art C 97 CP Krit A 97 CP

Input (from keyboard)	Output (on screen)
8 Krit A 97 CP Oat A 98 CE Pim C 99 CP Pun C 97 CHE Jame Dog 100 CE Art C 97 CP Benz Dog 99 CP Mark C 100 CP	Jame Dog 100 CE Mark C 100 CP
8 Krit A 97 CP Oat A 98 CE Pim C 99 CP Pun C 97 CHE Jame Dog 100 CE Art C 97 CP Benz Dog 99 CP Mark C 100 CP 99 Dog CP	Benz Dog 99 CP
8 Krit A 97 CP Oat A 98 CE Pim C 99 CP Pun C 97 CHE Jame Dog 100 CE Art C 97 CP Benz Dog 99 CP Mark C 100 CP CE	Jame Dog 100 CE Oat A 98 CE
8 Krit A 97 CP Oat A 98 CE Pim C 99 CP Pun C 97 CHE Jame Dog 100 CE Art C 97 CP Benz Dog 99 CP Mark C 100 CP 99 CHE	Not Found