## **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 to 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	Art C 97 CP
Krit A 97 CP	Mark C 100 CP
Oat A 98 CE	Pim C 99 CP
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	
8	Art C 97 CP
Krit A 97 CP	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	
8	Jame Dog 100 CE
Krit A 97 CP	Mark C 100 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	
100	
8	Benz Dog 99 CP
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	
8	Jame Dog 100 CE
Krit A 97 CP	Oat A 98 CE
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	
8	Not Found
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	