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1027. MJ, Nowhere to Hide

15291 Accepted: 4961 Rating: 3.4/5.0(45 votes)

Description

On BBS, there is a familiar term called MJ (short for MaJia), which means another BBS ID of one person besides his/her main

These days, a lot of ACMers pour water on the ACMICPC Board of argo. Mr. Guo is very angry about that and he wants to punish these guys. ACMers are all smart boys/girls, right? They usually use their MJs while pouring water, so Mr. Guo can not tell all the IDs apart. Unfortunately, the IP can not be changed, i.e, the posts of main ID and MJ of the same person has the same IP address, meanwhile, the IP addresses of different person is different. Assuming that each person has exactly one main ID and one MJ, by reading their posts on BBS, you then tell Mr. Guo whom each MJ belongs to.

Input

The first line of each test cases is an even integer n (0<=n<=20), the number of posts on BBS.

Then n lines follow, each line consists of two strings:

BBS ID IP Address

BBS ID means the ID who posts this post. BBS ID is a string contains only lower case alphabetical characters and its length is not greater than 12. Each BBS ID appears only once in each test cases.

IP Address is the IP address of that person. The IP address is formatted as "A.B.C.D", where A, B, C, D are integers ranging from 0 to 255.

It is sure that there are exactly 2 different BBS IDs with the same IP address. The first ID appears in the input is the main ID while the other is the MJ of that person.

Your program should be terminated by n = 0.

Output

For each test case, output n/2 lines of the following format: "MJ ID is the MaJia of main ID"

They should be displayed in the lexicographical order of the main_ID.

Print a blank line after each test cases.

See the sample output for more details.

Sample Input

Сору

```
inkfish 192.168.29.24
zhi 192.168.29.235
magicpig 192.168.50.170
pegasus 192.168.29.235
iamcs 202.116.77.131
finalBob 192.168.29.24
tomek 202.116.77.131
magicduck 192.168.50.170
mmmmmm 172.16.72.126
kkkkk 192.168.49.161
111111 192.168.49.161
nnnnnn 172.16.72.126
```

Sample Output

Сору

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tomek is the MaJia of iamcs finalBob is the MaJia of inkfish magicduck is the MaJia of magicpig pegasus is the MaJia of zhi

llllll is the MaJia of kkkkkk nnnnnn is the MaJia of mmmmmm

Problem Source: ZSUACM Team Member

Status Submit Source Code

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