## Input

The single line contains the integers n (  $1 \le n \le 1000$  ) — the number of hospitals or med students.

The following 2\*n lines contain the preference list of each hospital and student.

## Output

Print pairs of the stable matching.

```
unmatched students = set(range(n))
      student = student str[unmatched students.pop()]
             matches[hospital] = student
             hospital preferences =
preferences[n+hospital str.index(hospital)]
hospital preferences.index(current student):
                matches[hospital] = student
```

```
preferences = []
student str = []
hospital_str = []
    student_str.append(temp.split(":")[0])
    preferences.append(temp.split(":")[1].split(">"))
for _ in range(n):
    hospital str.append(temp.split(":")[0])
    preferences.append(temp.split(":")[1].split(">"))
stable_matching(n, preferences, student_str, hospital_str)
/Users/kkkai/PycharmProjects/pythonProject5/wenv/bin/python /Users/kkkai/PycharmProjects/pythonProject5/main.py
(A, X)
/Users/kkkai/PycharmProjects/pythonProject5/wenv/bin/python /Users/kkkai/PycharmProjects/pythonProject5/main.py
B:Y>X>Z
C:X>Y>Z
(A,X)
(B,Y)
进程已结束,退出代码为 Θ
```