Problem NUMPICK: Number Picking

My friends and I often play a funny mathematics-related game. The first player picks two different numbers i and j from the set of rational numbers $\mathbb{Q}$. In the next turn, the second player has to pick a number k between i and j (i.e., such that $i < k < j$ or $j < k < i$ holds). Of course there always is such a number k. But knowing this theoretical fact isn't enough, finding a concrete k sometimes still is a challenge. Please write a program to help the second player win by finding a rational number k between two rational numbers i and j.

Input

The first line of the input contains an integer c ($1 \leq c \leq 200$), giving the number of test cases. Two lines per test case follow, one for i and one for j, each containing two positive integers, the numerator and the denominator. No integer will be larger than 2^{15}.

Output

Print one line per test case stating numerator and denominator of one possible choice of k separated by single spaces. As i and j are restricted to an subset of $\mathbb{Q}$, we also restrict the numerator and denominator of k to at most 100 decimal digits. Any solution for k will be accepted.

Sample Input 1

```
4
1 2
3 4
1 1
6 1
3 4
1 2
3 4
1 2
```

Sample Output 1

```
2 3
7 2
2 3
5 7
```