

Problem

A zoo have two types of creatures, type A has a hands and type B has b hands. Spawn the smallest number of creatures so they can grab each other hands in the following conditions:

- Each creature should only grab the hands of another creature type.
- Each creature should grab with all of its hands.

What is the smallest number of creature needed?

Note: It is guaranteed that under the given conditions answer is unique.

Input format

- The first line contains t number of test cases .
- Each of the next t lines contains two integers a_i, b_i denoting the number of type A creature hands and the number of type B creature hands.

Output format

The output contains t lines. For each test case, print two numbers $ans1_i, ans2_i$, the number of type A creatures, and the number of type B creatures. Consider that $ans1_i + ans2_i$ should be smallest possible.

Constraints

$$1 \leq t \leq 100\,000$$

$$1 \leq a_i, b_i \leq 10^9$$

Sample Input	Sample Output
1 20 2	1 10

Time Limit: 1

Memory Limit: 256

Source Limit: