

Problem A. My First Sorting Problem

Time Limit 1000 ms

Mem Limit 262144 kB

You are given two integers x and y .

Output two integers: the minimum of x and y , followed by the maximum of x and y .

Input

The first line contains a single integer t ($1 \leq t \leq 100$) — the number of test cases.

The only line of each test case contains two space-separated integers x and y ($0 \leq x, y \leq 9$).

Output

For each test case, output two integers: the minimum of x and y , followed by the maximum of x and y .

Examples

Input	Output
10	1 9
1 9	4 8
8 4	1 4
1 4	3 4
3 4	0 2
2 0	2 4
2 4	6 9
6 9	3 3
3 3	0 0
0 0	9 9
9 9	