## **Greatest Common Divisor**

Time Limit: 1 Second Memory Limit: 256 MB

Given two integers a and b, find the greatest common divisor of a and b. You will need to answer multiple queries.

## Input

The first line contains a single integer q ( $1 \le q \le 5 \cdot 10^5$ ), the number of queries.

The next q lines each contains two integers  $a, b \ (0 \le a, b \le 10^9)$ . You will need to find the GCD of the pair of numbers on each line. It is guaranteed that a and b will not both equal to 0.

## Output

Output q lines, corresponding to the GCD of each query.

Sample Inputs	Sample Outputs
5	24
72 120	1
1 1000000000	4
4 0	5
5 5	1
89 55	