Greatest Common Divisor

Given two integers a and b. Find the greatest common divisor of a and b.

Input

The input begins with the number t of test cases in a single line (t<=10).

Each of next t lines contains a testcase which give two integers a and b.

Output

For each testcase, print the result in a single line.

Example

Input:
2

5 7

4 6

Output:
1

2