

Problem GCD

Time Limit 1 second.

Memory Limit 256MB.

Write a program which takes two positive integers, and returns their greatest common divisor.

Input

Your input consists of an arbitrary number of lines, but no more than 2,000.

Each line contains two positive integers a ($1 \leq a \leq 10^9$) and b ($1 \leq a \leq 10^9$)

The end of input is indicated by a line containing only the value -1.

Output

For each input line, print the greatest common divisor of a and b separated by a new line.

Example

Standard input	Standard output
24 18	6
6 80	2
25 36	1
36 12	12
75 51	3
93 31	31
-1	