## Greatest common divisor

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English version

For given integers $\mathbf{a}$ and $\mathbf{b}$ print the greatest common divisor of $a$ and $b$.

## Input

The first line of the standard input contains one integer $\mathbf{t}(\mathrm{t}<10001)$ which is the number of test cases.

In each of the next $\mathbf{t}$ lines there are two numbers: $\mathbf{a}$ and $\mathbf{b}$.

## Output

For each test, print the greatest common divisor of a and b .

## Example

Input:
3
55
75
128164
Output:
5
1
4

