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GCD2

Problem code: GCD2

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Frank explained its friend Felman the algorithm of Euclides to calculate the GCD of two numbers. Then Felman implements it algorithm

```
int gcd(int a, int b)
{
    if (b==0)
        return a;
    else
        return gcd(b,a%b);
}
```

and it proposes to Frank that makes it but with a little integer and another integer that has up to 250 digits.
Your task is to help Frank programming an efficient code for the challenge of Felman.

Input

The first line of the input file contains a number representing the number of lines to follow. Each line consists of two number A and B ($0 <= A <= 40000$ and $A <= B < 10^{250}$).

Output

Print for each pair (A,B) in the input one integer representing the GCD of A and B.

Example

Input:
```
2
2 6
10 11
```

Output:
```
2
1
```

Author:	admin
Tags:	admin
Date Added:	1-12-2008
Time Limit:	0.5 sec
Source Limit:	1000 Bytes
Languages:	ADA, ASM, BASH, BF, C, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, CS2, D, FORT, FS, GO, HASK, ICK, ICON, JS, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PIKE, PRLG, PYTH, PYTH 3.1.2, SCALA, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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