

Greatest common divisor

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[English version](#)

For given integers **a** and **b** print the greatest common divisor of a and b.

Input

The first line of the standard input contains one integer **t** ($t < 10001$) which is the number of test cases.

In each of the next **t** lines there are two numbers: **a** and **b**.

Output

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

Example

Input:

```
3
5 5
7 5
128 164
```

Output:

```
5
1
4
```