Common Divisors

Mario and Luigi earn points in their steps to save the Princess Peach from a dragon. Let's denote Mario's points by `M` and Luigi's by `L`. Princess Peach is wondering how many postive integers are there that are divisors to both numbers, `M` and `L`. Help her find the answer.

Input

First line of input contains an integer, `T`, which represent the number of test cases. Then follows `T` lines. Each line contains two space separated integers, `M L`, representing the points earned by Mario and Luigi, respectively.

Output

For each test case, print the solution in different lines.

Constraints

1 <= T <= 10

1 <= L, M <= 10^8

L, M are integers

Sample Input

```
3
10 4
1 100
288 240
```

Sample Output

```
2
1
10
```

Explanation

Test Case #00: Divisors of *M = 10* are *{1,2,5,10}*, while for *L = 4* they are *{1, 2, 4}*. So *M* and *L* shares *{1, 2}* as their common divisors.

Test Case #01: Here as *M = 1*, both players only share this number as their divisor.

Test Case #02: Here *M* and *L* shares *10* integers, *{1,2,3,4,6,8,12,16,24,48}*, as their divisors.