## Reduced fraction

$$
\frac{8}{10}=\frac{x^{2} * 4}{2 * 5}=\frac{4}{5}
$$

Enter the numerator and denominator of a fraction. Reduce that fraction.

## Input

The first line of the input consist of a single integer number $t$ which determines the number of tests.

In each of next $t$ lines will contain numerator and denominator of the fraction that separated by a space.

## Constraints

- $0<t \leq 1000$


## Output

For each test case print out the numerator and denominator of the reduced fraction that separated by a space. Separate your answers with a new line character.

## Example

Input:
8
-8 16
19
810
-3 0
150200
-9-12
279
45-50
Output:
-1 2
19
45
the denominator can not be zero
34
34
3

