

# PLAY WITH MATH

You would have been fed up with competitive programming questions so far, now it is time to solve little math.

Assume you have a equation  $A * x - B * y = 0$

For a given value of **A** and **B**, find the minimum positive integer value of **x** and **y** that satisfies this equation.

## Input

First line contains **T**, number of test cases  $0 \leq T \leq 1000$  followed by **T** lines.

First line of each test case contains two space separated integers **A** and **B**.  $1 \leq A, B \leq 1\ 000\ 000\ 000$ .

## Output

For each test case, output a single line containing two integers **x** and **y** (separated by a single space).

## Example

**Input:**

```
1
2 3
```

**Output:**

```
3 2
```

**Note:**

- Brute force won't pass the given constraint.
- Negative number cases are avoided to make the problem easy.