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GCD and LCM

Problem Code: **FLOW016**

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Two integers **A** and **B** are the inputs. Write a program to find GCD and LCM of A and B.

Input

The first line contains an integer **T**, total number of testcases. Then follow **T** lines, each line contains an integer **A** and **B**.

Output

Display the GCD and LCM of **A** and **B** separated by space respectively. The answer for each test case must be displayed in a new line.

Constraints

- $1 \leq T \leq 1000$
- $1 \leq A, B \leq 1000000$

Example

Input

```
3
120 140
10213 312
10 30
```

Output

```
20 840
1 3186456
10 30
```

All submissions for this problem are available.

Author:	1★ vicky002
Tags:	vicky002
Date Added:	27-04-2015
Time Limit:	1 secs
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