LCM and GCD 1

X and Y are 2 inputs. Find the LCM and GCD of X and Y for T testcases

Input Format

The first line contains an integer T, total number of testcases. Then follow T lines, each line contains an integer X and Y.

Constraints

$1 \le T \le 1000$

$1 \le X, Y \le 1000000$

Output Format

Print the LCM and GCD of X and Y.

Sample Input 0

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

Sample Output 0

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