# \|IUC ONLINE CONTEST 2008 Problem D: GCD LCM <br> Input: standard input <br> Output: standard output 

The GCD of two positive integers is the largest integer that divides both the integers without any remainder. The LCM of two positive integers is the smallest positive integer that is divisible by both the integers. A positive integer can be the GCD of many pairs of numbers. Similarly, it can be the LCM of many pairs of numbers. In this problem, you will be given two positive integers. You have to output a pair of numbers whose GCD is the first number and LCM is the second number.

## Input

The first line of input will consist of a positive integer T. T denotes the number of cases. Each of the next $\mathbf{T}$ lines will contain two positive integer, $\mathbf{G}$ and $\mathbf{L}$.

## Output

For each case of input, there will be one line of output. It will contain two positive integers a and $\mathbf{b}$, $\mathbf{a} \leq \mathbf{b}$, which has a GCD of $\mathbf{G}$ and LCM of $\mathbf{L}$. In case there is more than one pair satisfying the condition, output the pair for which a is minimized. In case there is no such pair, output -1 .

## Constraints

- $\quad \mathrm{T} \leq 100$
- $\quad$ Both $\mathbf{G}$ and $\mathbf{L}$ will be less than $\mathbf{2}^{\mathbf{3 1}}$.
$\left.\begin{array}{|l|l|}\hline \text { Sample Input } & \text { Output for Sample Input } \\ \hline 2 & 12 \\ 1 & 2\end{array}\right]-1 \quad$.


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