

GCDLCM

Time limit: 2 sec.
Memory limit: 512MB

Description

Given two natural numbers x and y , calculate their greatest common divisor(GCD) and least common multiple(LCM)

Input

The first line contains two integers, x and y . ($1 \leq x, y \leq 30000$)

Output

Print the greatest common divisor(GCD) and least common multiple(LCM), separated by a whitespace.

Sample I/O

Input(s)	Output(s)
4 6	2 12
1 7	1 7