
GCD

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 256 megabytes

Given two numbers A and B . Print the **GCD** and **LCM** of A and B .

Note:

- **GCD** is the greatest common divisor of A and B .
- **LCM** is the least common multiple of A and B .

Input

Only one line contains two numbers A and B ($1 \leq A, B \leq 10^{15}$).

Output

Print the **GCD** and the **LCM** of A and B separated by a space.

Example

standard input	standard output
12 18	6 36

Note

For more information about **GCD** visit : https://en.wikipedia.org/wiki/Greatest_common_divisor.

For more information about **LCM** visit : https://en.wikipedia.org/wiki/Least_common_multiple.