



STUDENT REPORT

DETAILS

Name

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Roll Number

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EXPERIMENT

Title

SIGNATURE FOR LCM

Description

Given two numbers a and b. Find the GCD and LCM of a and b.

Input:

- Two positive integers a and b ($1 \leq a, b \leq 1000$)

Output:

For GCD function, an integer representing the GCD of a and b

For LCM function, an integer representing the LCM of a and b

Sample Input:

12 18

Output:

6

36

Explanation:

The GCD of 12 and 18 is 6. The LCM of 12 and 18 is 36.

Source Code:

```
def gcd(a, b):
    while b:
        a, b = b, a % b
    return a

def lcm(a, b):
    return abs(a * b) // gcd(a, b)

# Input reading
import sys

input = sys.stdin.read
data = input().strip().split()

a = int(data[0])
b = int(data[1])

# Calculate GCD and LCM
gcd_value = gcd(a, b)
lcm_value = lcm(a, b)

# Print the results
print(gcd_value)
print(lcm_value)
```

RESULT

5 / 5 Test Cases Passed | 100 %