

Problem C: Cuberoot This
Time Limit: 3 seconds

Description

Given a prime p , and a constant $0 < a < p$. Find all x such that $x^3 \equiv a \pmod{p}$.

Input

Each input is on one line (≤ 1000 inputs), with a and p ($p < 1000$).

Output

Output all x satisfying the condition above in increasing order. Print a blank line if there are none.

Sample Input

2 31

Sample Output

4 7 20