

LCM

Input file: Standard Input

Output file: Standard Output

Time limit: 1s

Memory limit: 128 MB

Problem Description

The people of Lime Town like Math. They especially like to figure out the LCM of two numbers, A_i and B_i . However, they do not know how to calculate the LCM of two numbers. They will worship anyone who can help them calculate the LCM of two numbers. Since you really want to get worshipped, write a program to help the people of Lime Town find out the LCM of two numbers.

The LCM (least common multiple) of 2 numbers, A_i and B_i , is defined as the smallest positive integer such that it is divisible by both A_i and B_i .

Input

The first line of input contains a single integer N , the population of Lime Town. It is guaranteed that N is non-negative and smaller than 23. Every citizen of Lime Town will come up to you with 2 numbers. Help citizen i calculate the LCM of her numbers A_i and B_i . It is not guaranteed that A_i is greater than B_i or vice versa. Both numbers will be non-negative and less than 10^9 .

Output

N lines, each containing the LCM of the citizens' numbers.

Sample Input

1

15 36

Sample Output

180