



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🛣 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

## A. GCD Table

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

The GCD table G of size  $n \times n$  for an array of positive integers a of length n is defined by formula

Let us remind you that the greatest common divisor (GCD) of two positive integers X and Y is the greatest integer that is divisor of both X and Y, it is denoted as . For example, for array  $a = \{4, 3, 6, 2\}$  of length 4 the GCD table will look as follows:

Given all the numbers of the GCD table G, restore array a.

#### Input

The first line contains number  $n (1 \le n \le 500)$  — the length of array a. The second line contains  $n^2$  space-separated numbers — the elements of the GCD table of a for array a.

All the numbers in the table are positive integers, not exceeding  $10^9$ . Note that the elements are given in an arbitrary order. It is guaranteed that the set of the input data corresponds to some array a.

#### **Output**

In the single line print n positive integers — the elements of array a. If there are multiple possible solutions, you are allowed to print any of them.

#### Examples

Examples	
input	
4 2123432611221232	
output	
4362	
<b>4</b>	
input	

input	
1 42	
output	
42	

input
2 1111
output
11

# Codeforces Round #323 (Div. 1)

## **Finished**

#### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

# → Problem tags (constructive algorithms) (greedy) No tag edit access

# → Contest materials • Announcement • Tutorial