# A. Fox and Number Game

time limit per test
1 second
memory limit per test
256 megabytes
input
standard input
output
standard output

Fox Ciel is playing a game with numbers now.

Ciel has n positive integers:  $x_1, x_2, ..., x_n$ . She can do the following operation as many times as needed: select two different indexes i and jsuch that  $x_i > x_j$  hold, and then apply assignment  $x_i = x_i - x_j$ . The goal is to make the sum of all numbers as small as possible. Please help Ciel to find this minimal sum.

#### Input

The first line contains an integer n ( $2 \le n \le 100$ ). Then the second line contains n integers:  $x_1, x_2, ..., x_n$  ( $1 \le x_i \le 100$ ).

#### Output

Output a single integer — the required minimal sum.

#### **Examples**

#### input

2 1 2

#### output

Сору

## input

Copy

3 2 4 6

## output

Сору

6

## input

Copy

2 12 18

### output

Copy

12

# input

Copy

5

45 12 27 30 18

# output

Copy

15

# Note

In the first example the optimal way is to do the assignment:  $x_2 = x_2 - x_1$ .

In the second example the optimal sequence of operations is:  $x_3 = x_3 - x_2$ ,  $x_2 = x_2 - x_1$ .