A Dividing Problem

Time Limit: 1.0s   **Memory Limit:** 64M

Given an array a, print the largest positive number that divides all the elements in a.

Input Specification

The first line will contain the integer N $(1 \leq N \leq 100)$.

The second line will contain N integers, $a_1, a_2, \ldots, a_N$ $(1 \leq a_i \leq 10^9)$.

Output Specification

Print the largest positive number that divides all elements in a.

Sample Input

```
3
30 5 10
```

Sample Output

```
5
```