Equalize (easy version)

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

You are given an array a of n integers.

Consider positive integers $b_1, \ldots, b_n$ that satisfy that for any i, j such that $(1 \le i < j \le n)$, $a_i b_i = a_j b_j$.

Find the minimum possible value of $b_1 + \cdots + b_n$ for such $b_1, \ldots, b_n$.

Input

First line contains n $(1 \le n \le 10)$ – number of elements.

Second line contains n integers $a_1, \ldots, a_n$ $(1 \le a_i \le 50)$

Output

Output one line contains the minimum value for $b_1 + \cdots + b_n$ that satisfy the conditions above.

Example

standard input	standard output
3 1 2 3	11

Note

The minimum possible value for this test case is $6, 3, 2$

such that $1 \times 6 = 2 \times 3 = 3 \times 2$. So the answer is $6 + 2 + 3 = 11$.