Problem C. Geometric progression

Input file:	stdin
Output file:	stdout
Time limit:	1 second
Memory limit:	512 megabytes

bobo loves geometric progressions! So he wants to know the number of geometric progressions of length 3 in a sequence $a_1, a_2, \ldots, a_n$.

That is to say, count the number of (i, j, k) where $i < j < k$ and $a_i \cdot a_k = a_j^2$.

Input

The first line contains an integer n ($1 \le n \le 1000000$).

The second line contains n integers $a_1, a_2, \ldots, a_n$ ($1 \le a_1 < a_2 < \cdots < a_n \le 1000000$).

Output

A single integer denotes the number of geometric progressions.

Sample input and output

stdin	stdout
3 1 2 4	1
4 1 2 4 8	2