## Problem M. Math

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 2 seconds |
| Memory limit: | 512 mebibytes |

You are given an array $a$ of $n$ distinct positive integers. Find the number of pairs $(i, j)$ with $1 \leq i, j \leq n$ for which the number $a_{i}^{2}+a_{j}$ is a square of an integer.

## Input

The first line of the input contains a single integer $n\left(1 \leq n \leq 10^{6}\right)$, the size of the array.
The second line of the input contains $n$ distinct positive integers $a_{1}, \ldots, a_{n}\left(1 \leq a_{i} \leq 10^{6}\right)$.

## Output

Output a single integer: the answer to the problem.

## Example

|  |  |  | standard input |  | standard output |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 5 |  | 3 | 4 | 5 |  | 2 |

## Note

In the example, there are two such pairs, corresponding to $1^{2}+3=4=2^{2}$ and $2^{2}+5=9=3^{2}$.

