## ABCDEF

You are given a set S of integers between -30000 and 30000 (inclusive).
Find the total number of sextuples $(a, b, c, d, e, f): a, b, c, d, e, f \in S ; d \neq 0$ that satisfy:

$$
\frac{a * b+c}{d}-e=f
$$

## Input

The first line contains integer $N(1 \leq N \leq 100)$, the size of a set $S$.
Elements of $S$ are given in the next N lines, one integer per line. Given numbers will be distinct.

## Output

Output the total number of plausible sextuples.

## Examples

| Input: | Input: | Input: | Input: |
| :--- | :--- | :--- | :--- |
| 1 | 2 | 2 | 3 |
| 1 | 2 | -1 | 5 |
|  | 3 | 1 | 7 |
| Output: |  |  | 10 |
| 1 | Output: | Output: |  |
|  | 4 |  |  |
|  |  |  | 10 |

