Problem H. Gift

Time limit	1000 ms
Code length Limit	50000 B
OS	Linux

Elnur, Nijat and Amin are playing a game to win a prize using an array A of length N.

Elnur can choose any pair (i, j) such that $(1 \leq i < j \leq N)$.

Let the scores of Elnur, Nijat, and Amin be denoted by a, b, and c respectively, where:

- $a = A_i - A_j$
- $b = A_i + A_j$
- $c = A_i \times A_j$

If the numbers a, b, and c form an arithmetic progression, then Elnur, Nicat, and Amin will win the prize.

Task: Find how many pairs (i, j) Elnur can choose so that they can win the prize.

Input

- The first line contains an integer T — the number of test cases.
- For each test case, two lines of input are given:
  - The first line contains an integer N — the number of elements in the array.
  - The second line contains N integers separated by spaces $A_1, A_2, \ldots, A_N$ — the elements of the array.

Output

For each test case, output on a new line the number of pairs (i, j) such that Elnur, Nijat, and Amin win the prize as a result.

Constraints

- $1 \leq T \leq 10^3$
- $1 \leq N \leq 10^5$

- $1 \leq A_i \leq 10^9$
- The sum of all N across test cases does not exceed $5 \cdot 10^5$.

Example

Input	Output
2 3 1 3 9 5 2 1 8 6 2	0 1

Explanation

Test case 1: There are no pairs satisfying the condition.

Test case 2: There is one possible pair:

- $(4, 5) : a = (6 - 2) = 4, b = (6 + 2) = 8, c = (6 \times 2) = 12.$
  We can see that a, b, c form an arithmetic progression.