Problem M. Managing Difficulties

Time limit: 2 seconds
Memory limit: 512 megabytes

Every day a new programming problem is published on Codehorses. Thus, n problems will be published in the following n days: the difficulty of the i-th problem is a_i.

Polycarp wants to choose exactly three days i, j and k ($i < j < k$) so that the difference of difficulties on the day j and the day i is equal to the difference of difficulties on the day k and day j. In other words, Polycarp wants equality $a_j - a_i = a_k - a_j$ to be true.

Determine the number of possible ways for Polycarp to choose the three days in the desired way.

Input

The first line contains an integer t — the number of test cases in the input ($1 \le t \le 10$). Then t test case descriptions follow.

The first line of a test case contains an integer n — the number of the days ($3 \le n \le 2000$).

The second line of the test case contains n integers $a_1, a_2, \ldots, a_n$, where a_i is the difficulty of the problem on the i-th day ($1 \le a_i \le 10^9$).

Output

Output t integers — the answers for each of the test cases in the input, in the order they are given. The answer to a test case is the number of triples of indices i, j, and k such that $1 \le i < j < k \le n$ and $a_k - a_j = a_j - a_i$.

Example

standard input	standard output
4 5 1 2 1 2 1 3 30 20 10 5 1 2 2 3 4 9 3 1 4 1 5 9 2 6 5	1 1 4 5