Problem N
Triangular Collection
Time Limit: 1

Call a set of positive integers *triangular* if it has size at least three and, for all triples of distinct integers from the set, a triangle with those three integers as side lengths can be constructed.

Given a set of positive integers, compute the number of its *triangular* subsets.

Input

The first line of input contains a single integer n ($1 \leq n \leq 50$), which is the number of integers in the set.

Each of the the next n lines contains a single integer x ($1 \leq x \leq 10^9$). These are the elements of the set. They are guaranteed to be distinct.

Output

Output a single integer, which is the number of triangular subsets of the given set.

Sample Input 1	Sample Output 1
5 3 1 5 9 10	2

Sample Input 2	Sample Output 2
10 27 26 17 10 2 14 1 12 23 39	58