

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

```
5
3
1
5
9
10
```

Sample Output 1

```
2
```

Sample Input 2

```
10
27
26
17
10
2
14
1
12
23
39
```

Sample Output 2

```
58
```