

# Triangle

**Time limit: 3 seconds**

## Problem Description

Given  $n$  segments of different lengths, please determine the number of possible different triangles that can form by these segments.

## Input File Format

There are several test case. The first line of each case is the number of segments, and the second line contains  $n$  positive integers which are the lengths of these segments. You may assume that  $n$  is no more than 30 and the segment lengths are no more than 10000. The case of  $n=0$  indicates the end of input.

## Output Format

For each test case, output the number of different triangles in one line.

## Example

Sample Input:	Sample Output:
5 2 4 6 3 5 0	7