# 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 |