

## Problem A: Assembling Triangles

Bash has  $n$  segments. The  $i$ -th segment has length  $2^{a_i}$ . Bash wants to select three different segments to form a triangle.

Now Bash wonders, how many different ways there are to choose three segments that form a triangle? Note that three segments can form a triangle if and only if the sum of any two segments is greater than the third segment.

### Input

The first line contains a single integer  $t$  ( $1 \leq t \leq 10^5$ ) – the number of test cases.  $t$  test cases follow, each consists of two lines:

- The first line contains an integer  $n$  ( $3 \leq n \leq 3 \cdot 10^5$ ).
- The second line contains  $n$  integers  $a_1, a_2, \dots, a_n$  ( $0 \leq a_i \leq 10^9$ ).

The sum of  $n$  over all test cases does not exceed  $3 \cdot 10^5$ .

### Output

For each test case, print a single line containing the number of ways to choose three segments that can form a triangle.

### Sample Explanation

In the first test case, there are 3 segments with length 2, 4 and 8. You cannot form any triangle with these three segments.

In the second test case, there are 4 segments, all with length 2. Using any three of these segments, you can form a triangle.

#### Sample Input 1

```
2
3
1 2 3
4
1 1 1 1
```

#### Sample Output 1

```
0
4
```