Kanade's trio

Time Limit: 4000/2000 MS (Java/Others) Memory Limit: 524288/524288 K (Java/Others)
Total Submission(s): 321 Accepted Submission(s): 104

Problem Description

Give you an array $A[1..n]$, you need to calculate how many tuples (i, j, k) satisfy that $(i < j < k)$ and $((A[i]\ xor\ A[j]) < (A[j]\ xor\ A[k]))$

There are T test cases.

$1 \le T \le 20$

$1 \le \sum n \le 5 * 10^5$

$0 \le A[i] < 2^{30}$

Input

There is only one integer T on first line.

For each test case , the first line consists of one integer n ,and the second line consists of n integers which means the array $A[1..n]$

Output

For each test case , output an integer , which means the answer.

Sample Input

```
1

5

1 2 3 4 5
```

Sample Output

```
6
```

Source

2017 Multi-University Training Contest - Team 3

Recommend

liuyiding

Total 0.000000(s) query 1, Server time : 2017-08-02 14:39:05, Gzip enabled