



# 杭州电子科技大学



## HANGZHOU DIANZI UNIVERSITY



### Online Judge



Online Judge	Online Exercise	Online Teaching	Online Contests	Exercise Author
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## Kanade's trio

**Time Limit:** 4000/2000 MS (Java/Others)  
**Total Submission(s):** 321

**Memory Limit:** 524288/524288 K (Java/Others)  
**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  $((A[i] \text{ xor } A[j]) < (A[j] \text{ xor } A[k]))$

There are T test cases.

$1 \leq T \leq 20$

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

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

### 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

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