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**Problem**

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### Awesome Pairs

Accuracy: **69.86%** Submissions: **1387** Points: **10**

Geek is busy solving problems on Bitwise operators. Today while solving problems, he observed something which intrigued him very much. He discovered that there are some **awesome pairs** in a list of integers whose Bitwise AND is strictly greater than Bitwise XOR among them.

Given a list `arr[]` of `N` integers find the number of awesome pairs.

#### Example 1:

**Input:**

`N = 4`

`arr[] = {6, 2, 5, 3}`

**Output:** 2

**Explanation:**

Awesome pairs are (6, 5) and (2, 3).

#### Example 2:

**Input:**

`N = 3`

`arr[] = {1, 1, 1}`

**Output:** 3

**Explanation:** All pairs are awesome.

#### Your Task:

You don't need to read input or print anything. Your task is to complete the function **pairs()** that takes the array `arr[]` and its size `N` as input parameters and return the number of awesome pairs.

#### Constraints:

$1 \leq N \leq 10^6$

$0 \leq arr[i] \leq 10^9$

**Practice** (<https://practice.geeksforgeeks.org/home/>)

Java (1.8)

Test against custom input

```
1   // } Driver Code Ends
26
27
28 // User function Template for Java
29
30 class Solution {
31     long pairs(int N, int arr[]) {
32         // code here
33     }
34 }
```

