Dashboard > Data Structures > Advanced > Triplets

Points: 25   Rank: 183204

Triplets 🔖

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There is an integer array d which does not contain more than two elements of the same value. How many distinct ascending triples ($d[i] < d[j] < d[k], i < j < k$) are present?

Input format

The first line contains an integer, N, denoting the number of elements in the array. This is followed by a single line, containing N space-separated integers. Please note that there are no leading spaces before the first number, and there are no trailing spaces after the last number.

Output format:

A single integer that denotes the number of distinct ascending triplets present in the array.

Constraints:

$N \leq 10^5$

Every element of the array is present at most twice.
Every element of the array is a 32-bit non-negative integer.

Sample input:

```
6
1 1 2 2 3 4
```

Sample output:

```
4
```

Explanation

The distinct triplets are
(1,2,3)
(1,2,4)
(1,3,4)
(2,3,4)

The elements of the array might not be sorted. Make no assumptions of the same.

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Submissions:2639

Max Score:90

Difficulty: Advanced

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More

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Java 7

```java
 1  import java.util.HashMap;
 2  import java.util.HashSet;
 3  import java.util.Map;
 4  import java.util.Scanner;
 5  import java.util.Set;
 6  public class Solution{
 7      public static void main(String args[])
 8      {
 9          int[] arr;
10          Scanner scn=new Scanner(System.in);
11          int n=scn.nextInt();
12          arr=new int[n];
13
14          for(int i=0;i<n;i++)
15          {
16              arr[i]=scn.nextInt();
17          }
18          int triplets=0;
19          // Write the code to compute the number of triplets as required
20          System.out.println(triplets);
21      }
22
23  }
24
```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

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