Count em All

ZPRAC-16-17-Lab5

[25 points]

Given an array A of N integers, find the number of index pairs (i,j), i < j satisfying the following property:
|A[i] - A[j]| < (j - i)

Input Format:
First line contains N, the size of the array A.
Second line contains N space separated integers, the elements of A.

Constraints:
1 ≤ N ≤ 1000
-10000 ≤ A[i] ≤ 10000

Output Format:
Print the number of index pairs (i,j), i < j satisfying the inequality: |A[i] - A[j]| < (j - i)

Examples:

Input:
3
3 1 2
Output:
1
Explanation:
|A[0] - A[1]| = 2 > (1 - 0) ? No
|A[0] - A[2]| = 1 < (2 - 0) ? Yes
|A[1] - A[2]| = 1 == (2 - 1) ? No

Input:
4
3 5 3 5
Output:
3