

Beautiful Triplets:

You are given an array of integers of size n . A triplet (a_i, a_j, a_k) is considered beautiful if there exist indices $i < j < k$ such that:

$$a_j - a_i = j - i$$

$$a_k - a_j = k - j$$

Your task is to count the number of beautiful triplets in the array.

Constraints:

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

$$1 \leq a_i \leq 10^9$$

Input:

- The first line takes an integer n
- The second line takes n space separated integers a_1, a_2, \dots, a_n

Output:

- A single line: The number of beautiful triplets

Sample1:

Input:

5

3 4 1 2 3

Output:

1

Explanation:

Here the triplet (3, 4, 5) is consider beautiful