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Problem Submissions

Leaderboard

Given an array of integers and a target value, determine the number of pairs of array elements that have a difference equal to the target

Discussions

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Topics

Example k = 1

value

arr = [1, 2, 3, 4]

There are three values that differ by k=1: 2-1=1, 3-2=1, and 4-3=1. Return 3. **Function Description**

Complete the pairs function below.

- pairs has the following parameter(s): · int k: an integer, the target difference
- · int arr[n]: an array of integers

Returns

· int: the number of pairs that satisfy the criterion

Input Format

The first line contains two space-separated integers n and k, the size of arr and the target value.

The second line contains n space-separated integers of the array arr.

Constraints

- $2 \le n \le 10^5$
- $0 < k < 10^9$
- $0 < arr[i] < 2^{31} 1$
- ullet each integer arr[i] will be unique

Sample Input

STDIN	Function
5 2	arr[] size n = 5, k =:
1 5 3 4 2	arr = [1, 5, 3, 4, 2]

Sample Output

3

Explanation

There are 3 pairs of integers in the set with a difference of 2: [5,3], [4,2] and [3,1]. .