

RATE THIS CHALLENGE



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 value.

Example

$k = 1$   
 $arr = [1, 2, 3, 4]$

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

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

Sample Input

STDIN	Function
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5 2	arr[] size n = 5, k =2
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]. .



```
1 using System.CodeDom.Compiler;
2 using System.Collections.Generic;
3 using System.Collections;
4 using System.ComponentModel;
5 using System.Diagnostics.CodeAnalysis;
6 using System.Globalization;
7 using System.IO;
8 using System.Linq;
9 using System.Reflection;
10 using System.Runtime.Serialization;
11 using System.Text.RegularExpressions;
12 using System.Text;
13 using System;
14
15 class Result
16 {
17
18     /*
19      * Complete the 'pairs' function below.
20      *
21      * The function is expected to return an INTEGER.
22      * The function accepts following parameters:
23      * 1. INTEGER k
24      * 2. INTEGER_ARRAY arr
25      */
26
27     public static int pairs(int k, List<int> arr)
```

Line: 70 Col: 1

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