

Pairs

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You will be given an array of integers and a target value. Determine the number of pairs of array elements that have a difference equal to a target value.

For example, given an array of [1, 2, 3, 4] and a target value of 1, we have three values meeting the condition: $2 - 1 = 1$, $3 - 2 = 1$, and $4 - 3 = 1$.

Function Description

Complete the pairs function below. It must return an integer representing the number of element pairs having the required difference.

pairs has the following parameter(s):

- k: an integer, the target difference
- arr: an array of integers

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

Output Format

An integer representing the number of pairs of integers whose difference is k .

Sample Input

```
5 2
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] .

Author	HackerRank
Difficulty	Medium
Max Score	50
Submitted By	107916

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```
1  import java.io.*;
2  import java.math.*;
3  import java.security.*;
4  import java.text.*;
5  import java.util.*;
6  import java.util.concurrent.*;
7  import java.util.regex.*;
8
9  public class Solution {
10
11      // Complete the pairs function below.
12      static int pairs(int k, int[] arr) {
13
14      }
15
16      private static final Scanner scanner = new Scanner(System.in);
17
18      public static void main(String[] args) throws IOException {
19          BufferedWriter bufferedWriter = new BufferedWriter(new FileWriter(System.getenv(
20              "OUTPUT_PATH")));
21
22          String[] nk = scanner.nextLine().split(" ");
```

Line: 13 Col: 1

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