



Pairs



Problem

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Given N integers, count the number of pairs of integers whose difference is K .

Input Format

The first line contains N and K .

The second line contains N numbers of the set. All the N numbers are unique.

Constraints

- $2 \leq N \leq 10^5$
- $0 < K < 10^9$
- Each integer will be greater than 0 and at least K smaller than $2^{31} - 1$.

Output Format

An integer that tells 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.

Submissions: [44020](#)

Max Score: 50

Difficulty: Medium

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Current Buffer (saved locally, editable)

Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8     static int pairs(int[] a,int k) {
9         /* Complete this function */
10        return 0;
11    }
12
13    public static void main(String[] args) {
14        Scanner in = new Scanner(System.in);
```

```
15     int res;
16
17     String n = in.nextLine();
18     String[] n_split = n.split(" ");
19
20     int _a_size = Integer.parseInt(n_split[0]);
21     int _k = Integer.parseInt(n_split[1]);
22
23     int[] _a = new int[_a_size];
24     int _a_item;
25     String next = in.nextLine();
26     String[] next_split = next.split(" ");
27
28     for(int _a_i = 0; _a_i < _a_size; _a_i++) {
29         _a_item = Integer.parseInt(next_split[_a_i]);
30         _a[_a_i] = _a_item;
31     }
32
33     res = pairs(_a,_k);
34     System.out.println(res);
35 }
36 }
37
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ Test against custom input

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