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# Pairs

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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.

**Output Format**

An integer that tells the number of pairs of integers whose difference is $K$.

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

**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.

### Related Topics

Two Pointer Technique

Greedy Technique

Dictionary

Sorting

**Submissions:** 22803

**Max Score:** 50

**Difficulty:** Moderate

More

**Current Buffer** (saved locally, editable)  ⅄ 🕐                    Java 8  ⌄    ⤢  ⚙

```java
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution {
5
6      public static void main(String[] args) {
7          /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named
   Solution. */
8      }
9  }
```

Line: 1 Col: 1

⬆ Upload Code as File          ☐  Test against custom input                    Run Code    Submit Code

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