Full Name:	Remi Chartier
Email:	remipr.chartier@gmail.com
Test Name:	**Mock Test**
Taken On:	30 Oct 2021 13:33:30 IST
Time Taken:	0 min 22 sec/ 25 min
Contact Number:	+14084751573
Linkedin:	http://www.linkedin.com/in/remichartier
Invited by:	Ankush
Invited on:	30 Oct 2021 13:33:23 IST
Skills Score:	
Tags Score:	Algorithms 50/75
	Core CS 50/75
	Medium 50/75
	Search 50/75
	problem-solving 50/75

66.7% 50/75 scored in **Mock Test** in 0 min 22 sec on 30 Oct 2021 13:33:30 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	**Pairs** > **Coding**	13 sec	50/ 75	✓

QUESTION 1

✓

Correct Answer

Score 50

Pairs > Coding   Search   Algorithms   Medium   problem-solving   Core CS

QUESTION DESCRIPTION

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
-----          --------
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]. .

CANDIDATE ANSWER

Language used: **Python 3**

```python
1  #
2  # Complete the 'pairs' function below.
3  #
4  # The function is expected to return an INTEGER.
5  # The function accepts following parameters:
6  #  1. INTEGER k
7  #  2. INTEGER_ARRAY arr
8  #
9
10 def pairs(k, arr):
11     # Write your code here
12     count = 0
13     arr1 = set(arr)
14     for i in range(len(arr1)):
15         for j in range(i+1,len(arr1)):
16             if abs(arr[i] - arr[j]) == k:
17                 count += 1
18     return count
19
20
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	✓ Success	5	0.0438 sec	9.32 KB

Testcase 2	Easy	Hidden case	⊘ Success	5	0.0635 sec	9.47 KB
Testcase 3	Easy	Hidden case	⊘ Success	5	0.0652 sec	9.38 KB
Testcase 4	Easy	Hidden case	⊘ Success	5	0.0615 sec	9.41 KB
Testcase 5	Easy	Hidden case	⊘ Success	5	0.1221 sec	9.44 KB
Testcase 6	Easy	Hidden case	⊘ Success	5	3.1412 sec	10.5 KB
Testcase 7	Easy	Hidden case	⊘ Success	5	3.5419 sec	10.5 KB
Testcase 8	Easy	Hidden case	⊘ Success	5	0.7899 sec	9.99 KB
Testcase 9	Easy	Hidden case	⊘ Success	5	2.6955 sec	10.4 KB
Testcase 10	Easy	Hidden case	⊘ Success	5	7.2994 sec	11 KB
Testcase 11	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0072 sec	21.3 KB
Testcase 12	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0072 sec	21.4 KB
Testcase 13	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0095 sec	21.4 KB
Testcase 14	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0033 sec	21.4 KB
Testcase 15	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0028 sec	21.4 KB
Testcase 16	Easy	Sample case	⊘ Success	0	0.0408 sec	9.46 KB
Testcase 17	Easy	Sample case	⊘ Success	0	0.037 sec	9.37 KB
Testcase 18	Easy	Sample case	⊘ Success	0	0.0463 sec	9.46 KB

No Comments

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