Full Name:	Remi Chartier	
Email:	remipr.chartier@gmail.com	
Test Name:	**Mock Test**	
Taken On:	30 Oct 2021 08:02:15 IST	
Time Taken:	0 min 24 sec/ 25 min	
Contact Number:	+14084751573	
Linkedin:	http://www.linkedin.com/in/remichartier	
Invited by:	Ankush	
Invited on:	30 Oct 2021 08:02:07 IST	
Skills Score:		

66.7%

50/75

scored in **Mock Test** in 0 min 24 sec on 30 Oct 2021 08:02:15 IST

Tags Score:

Algorithms	50/75
Core CS	50/75
Medium	50/75
Search	50/75
problem-solving	50/75

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1 **Pairs** ❯ **Coding**		15 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

- $2 \le n \le 10^5$
- $0 < k < 10^9$
- $0 < arr[i] < 2^{31} - 1$
- 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      pair_list = []
13      for i in range(len(arr)):
14          for j in range( i+1,len(arr)):
15              if abs(arr[i] - arr[j]) == k:
16                  pair_list.append([arr[i],arr[j]])
17      return(len(pair_list))
18
19
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	⊘ Success	5	0.0424 sec	9.48 KB
Testcase 2	Easy	Hidden case	⊘ Success	5	0.0711 sec	9.43 KB

Testcase 2	Easy	Hidden case	✓ Success	5	0.0744 sec	9.49 KB
Testcase 3	Easy	Hidden case	✓ Success	5	0.0796 sec	9.5 KB
Testcase 4	Easy	Hidden case	✓ Success	5	0.0469 sec	9.3 KB
Testcase 5	Easy	Hidden case	✓ Success	5	0.1117 sec	9.49 KB
Testcase 6	Easy	Hidden case	✓ Success	5	3.1962 sec	9.99 KB
Testcase 7	Easy	Hidden case	✓ Success	5	3.5076 sec	10 KB
Testcase 8	Easy	Hidden case	✓ Success	5	0.7813 sec	9.7 KB
Testcase 9	Easy	Hidden case	✓ Success	5	2.6088 sec	9.78 KB
Testcase 10	Easy	Hidden case	✓ Success	5	8.0034 sec	10.5 KB
Testcase 11	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0093 sec	20.8 KB
Testcase 12	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0045 sec	20.8 KB
Testcase 13	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0029 sec	20.9 KB
Testcase 14	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0025 sec	20.8 KB
Testcase 15	Easy	Hidden case	⊗ Terminated due to timeout	0	10.0058 sec	20.8 KB
Testcase 16	Easy	Sample case	✓ Success	0	0.0363 sec	9.35 KB
Testcase 17	Easy	Sample case	✓ Success	0	0.0501 sec	9.39 KB
Testcase 18	Easy	Sample case	✓ Success	0	0.0374 sec	9.39 KB

No Comments

PDF generated at: 30 Oct 2021 02:34:20 UTC