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Test Name: Mock Test

Taken On: 11 Oct 2023 09:15:13 IST

Time Taken: 3 min 1 sec/ 25 min

Invited by: Ankush

Invited on: 11 Oct 2023 09:15:03 IST

Skills Score:

Tags Score:

Algorithms 50/75

Core CS 50/75

Medium 50/75

Search 50/75

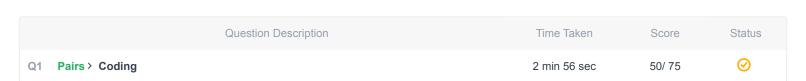
problem-solving 50/75

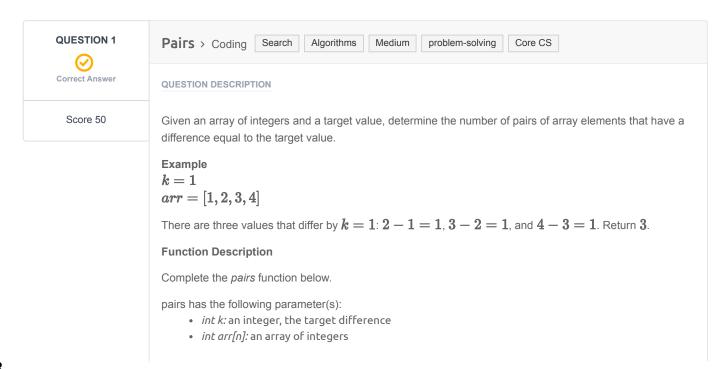
66.7% 50/75

scored in **Mock Test** in 3 min 1 sec on 11 Oct 2023 09:15:13 IST

Recruiter/Team Comments:

No Comments.





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

- $2 \le n \le 10^5$
- $0 < k < 10^9$
- $0 < arr[i] < 2^{31} 1$
- ullet 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
```

```
2 #
3 # Complete the 'pairs' function below.
5 # The function is expected to return an INTEGER.
6 # The function accepts following parameters:
7 # 1. INTEGER k
8 # 2. INTEGER ARRAY arr
9 #
11 import itertools
12 def pairs(k, arr):
# Write your code here
     combinations = []
     for combination in itertools.combinations(arr, 2):
          if abs(combination[0] - combination[1]) == k:
              combinations.append(combination[0] - combination[1])
19
     return len(combinations)
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	Success	5	0.1122 sec	10.7 KB
T . ^	-		^ -	-	0 0000	10 7 1/0

	Testcase 2	Easy	Hidden case	Success	5	0.0662 sec	10.7 KB			
	Testcase 3	Easy	Hidden case	Success	5	0.066 sec	10.8 KB			
	Testcase 4	Easy	Hidden case	Success	5	0.0718 sec	10.7 KB			
	Testcase 5	Easy	Hidden case	Success	5	0.1585 sec	10.7 KB			
	Testcase 6	Easy	Hidden case	Success	5	1.3792 sec	11.1 KB			
	Testcase 7	Easy	Hidden case	Success	5	1.5151 sec	11.3 KB			
	Testcase 8	Easy	Hidden case	Success	5	0.3514 sec	11 KB			
	Testcase 9	Easy	Hidden case	Success	5	1.0359 sec	11.1 KB			
	Testcase 10	Easy	Hidden case	Success	5	3.3499 sec	11.7 KB			
	Testcase 11	Easy	Hidden case	Terminated due to timeout	0	10.0033 sec	22 KB			
	Testcase 12	Easy	Hidden case	Terminated due to timeout	0	10.0047 sec	21.6 KB			
	Testcase	Easy	Hidden case	Terminated due to timeout	0	10.0035 sec	21.8 KB			
	Testcase 14	Easy	Hidden case	Terminated due to timeout	0	10.0039 sec	21.8 KB			
	Testcase 15	Easy	Hidden case	Terminated due to timeout	0	10.003 sec	21.8 KB			
	Testcase 16	Easy	Sample case	⊘ Success	0	0.0468 sec	10.7 KB			
	Testcase 17	Easy	Sample case	⊘ Success	0	0.0806 sec	10.5 KB			
	Testcase 18	Easy	Sample case	⊘ Success	0	0.0559 sec	10.4 KB			
No Comments										

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