<u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Competitive Programming</u> / <u>5-Pair with Difference-O(n^2)Time Complexity,O(1) Space Complexity</u>

Started on	Tuesday, 19 November 2024, 11:45 PM
State	Finished
Completed on	Tuesday, 19 November 2024, 11:47 PM
Time taken	2 mins
Marks	1.00/1.00
Grade	4.00 out of 4.00 (100 %)

Question 1

Correct

Mark 1.00 out of 1.00

Given an array A of sorted integers and another non negative integer k, find if there exists 2 indices i and j such that A[j] - A[i] = k, i!= j.

Input Format:

First Line n - Number of elements in an array

Next n Lines - N elements in the array

k - Non - Negative Integer

Output Format:

1 - If pair exists

0 - If no pair exists

Explanation for the given Sample Testcase:

YES as 5 - 1 = 4

So Return 1.

For example:

Input	Result
3 1 3 5 4	1

Answer: (penalty regime: 0 %)

```
11
         return 0;
12
13
14
     int main() {
         int n, k;
scanf("%d", &n);
int arr[n];
15
16
17
18
          for (int i = 0; i < n; i++) {
              scanf("%d", &arr[i]);
19
20
         scanf("%d", &k);
printf("%d\n", find_pair_with_difference(arr, n, k));
21
22
23
24
         return 0;
25
26
```

	Input	Expected	Got	
~	3 1 3 5 4	1	1	~
~	10 1 4 6 8 12 14 15 20 21 25 1	1	1	~
~	10 1 2 3 5 11 14 16 24 28 29 0	0	0	~
~	10 0 2 3 7 13 14 15 20 24 25 10	1	1	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◆ 4-Print Intersection of 2 sorted arrays-O(m+n)Time Complexity,O(1) Space Complexity

Jump to...

6-Pair with Difference -O(n) Time Complexity,O(1) Space Complexity