Dashbo... / My cour... / CS23331-DAA-2023-... / Competitive Program... / 5-Pair with Difference-O(n^2)Time Complexity,O(1) Space Com...

Started on	Tuesday, 19 November 2024, 10:08 PM
State	Finished
Completed on	Tuesday, 19 November 2024, 10:09 PM
Time taken	35 secs
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
1 3 5	
4	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
    int main()
 2
 3 ₹ {
 4
         int n;
         scanf("%d",&n);
 5
         int arr[n];
 6
         for(int i=0;i<n;i++)</pre>
 7
 8
 9
             scanf("%d",&arr[i]);
10
11
         int k;
         scanf("%d",&k);
12
13
         for(int i=0;i<n;i++)</pre>
14
15
             for(int j=i+1;j<n;j++)</pre>
16
17
                  if(arr[j]-arr[i]==k)
18
19
                      printf("1\n");
20
                      return 0;
21
22
23
         printf("0\n");
24
25
```

	Input	Expected	Got	
~	3 1 3 5 4	1	1	~
~	10 1 4 6 8 12 14 15 20 21 25 1	1	1	~

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		Input	Expected	Got	
•	•	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 ►