Started on	Sunday, 10 November 2024, 7:53 PM
State	Finished
Completed on	Sunday, 10 November 2024, 8:01 PM
Time taken	7 mins 34 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 3 5 4	1

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main(){
    int n, k;
    scanf("%d",&n);
    int a[n];
    for(int i=0;i<n;i++){
        scanf("%d",&a[i]);
    }
    scanf("%d",&k);
    int flag=0;
    for(int i=0;i<n;i++){
        for(int j=0;j<n;j++){
            if(i==j){
                continue;
            }
            else if(a[i]-a[j]==k || a[j]-a[i]==k){

                flag=1;
                break;
            }
        }
        if(flag){
            break;
        }
    }
    printf("%d",flag);
}
```

	Input	Expected	Got	
✔	3 1 3 5 4	1	1	✔

	Input	Expected	Got	
✔	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 ►