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 a;scanf("%d", &a);
    int arr[a];
    for(int i=0;i<a;i++)scanf("%d", &arr[i]);
    int c=0,k;scanf("%d", &k);
    int i=0,j=1;
    while(j<a){
        int d=arr[j]-arr[i];
        if (d==k&&i!=j){
            c=1;break;}
        else if(d<k)j++;
        else i++;}
    if(c==1)printf("1");
    else printf("0");
}
```

	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	✔

	Input	Expected	Got	
✔	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.

◄ 5-Pair with Difference-O(n^2)Time Complexity,O(1) Space Complexity

Jump to...