

**Started on** Monday, 3 November 2025, 8:57 PM

**State** Finished

**Completed on** Monday, 3 November 2025, 8:59 PM

**Time taken** 2 mins 13 secs

**Marks** 1.00/1.00

**Grade** **10.00** out of 10.00 (**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  $A[j] - A[i] = k$ ,  $i \neq j$ .

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 %)

```

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

	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.