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**Started on** Monday, 27 October 2025, 3:51 PM

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**State** Finished

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**Completed on** Monday, 27 October 2025, 4:08 PM

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**Time taken** 16 mins 57 secs

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**Marks** 1.00/1.00

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**Grade** **10.00** out of 10.00 (**100%**)

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**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     int n,flag=0;
4     scanf("%d",&n);
5     int a[n];
6     for (int i=0;i<n;i++)
7         scanf("%d",&a[i]);
8     int k;
9     scanf("%d",&k);
10    int i=0,j=0;
11    for(i=0;i<n;i++){
12        for(j=i+1;j<n;j++){
13            if(a[j]-a[i]==k)
14                flag=1;
15        }
16    }
17    printf("%d",flag);
18 }
```

	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.