

VARSHINI S 2024-CSE

V2

Started on Wednesday, 29 October 2025, 9:04 PM**State** Finished**Completed on** Wednesday, 29 October 2025, 9:10 PM**Time taken** 5 mins 59 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 $A[j] - A[i] = k$, $i \neq j$.

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
1 3 5	
4	

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     int arr[n];
6     for(int i=0;i<n;i++){
7         scanf("%d",&arr[i]);
8     }
9     int k;
10    scanf("%d",&k);
11    for(int i=0;i<n-1;i++){
12        for(int j=0;j<n-i-1;j++){
13            if(arr[j]>arr[j+1]){
14                int temp=arr[j];
15                arr[j]=arr[j+1];
16                arr[j+1]=temp;
17            }
18        }
19    }
20    int count=0;
21    for(int i=n-1;i>=0;i--){
22        for(int j=i-1;j>=0;j--){
23            if(arr[i]-arr[j]==k){
24                count++;
25            }
26        }
27    }
28    if(count>=1){
29        printf("1");
30    }
31    else{
32        printf("0");
33    }
34 }
```

33 }
34 }

	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.

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