

Started on	Thursday, 30 October 2025, 9:33 AM
State	Finished
Completed on	Thursday, 30 October 2025, 9:38 AM
Time taken	5 mins 33 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     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 x;
10    scanf("%d",&x);
11    int i=0,j=1;
12    int found=0;
13    while(i<n && j<n){
14        if (i != j && (arr[j]-arr[i]==x)) {
15            found=1;
16            break;
17        }
18        else if(arr[j]-arr[i]<x){
19            j++;
20        }
21        else{
22            i++;
23        }
24    }
25    printf("%d",found);
26    return 0;
27 }
28

```

	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.