

Started on Thursday, 30 October 2025, 9:13 AM

State Finished

Completed on Thursday, 30 October 2025, 9:30 AM

Time taken 16 mins 40 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,k;
4      scanf("%d",&n);
5      int flag=0;
6      int arr[n];
7      for(int i=0;i<n;i++){
8          scanf("%d",&arr[i]);
9      }
10     scanf("%d",&k);
11     for(int i=0;i<n-1;i++){
12         for(int j=i+1;j<n;j++){
13             if(arr[j]-arr[i]==k){
14                 flag=1;
15             }
16         }
17     }
18     printf("%d",flag);
19 }
```

	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.