Started on	Monday, 27 October 2025, 4:10 PM
State	Finished
Completed on	Monday, 27 October 2025, 4:39 PM
Time taken	29 mins 23 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 != 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,f=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=1;
11      while(i<n && j<n){
12          if(i!=j){
13              if(a[j]-a[i]==k){
14                  f=1;
15                  i++;
16                  j++;
17              }
18              else if(a[j]-a[i]<k)
19                  j++;
20              else
21                  i++;
22          }
23          else
24              j++;
25      }
26      printf("%d",f);
27  }
28
29
```

	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.