Started on	Thursday, 30 October 2025, 9:15 AM
State	Finished
Completed on	Thursday, 30 October 2025, 9:18 AM
Time taken	3 mins 10 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

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		
1 3 5			
4			

## **Answer:** (penalty regime: 0 %)

```
#include<stdio.h>
 2 🔻
    int main(){
 3
         int n;
         scanf("%d",&n);
 4
 5
         int a[n];
 6 •
         for(int i=0;i<n;i++){</pre>
 7
             scanf("%d",&a[i]);
 8
9
         int x;
         scanf("%d",&x);
10
         int i=0,j=1;
11
12
         int found=0;
13
         while(i<n && j<n){
             if(i!=j &&(a[j]-a[i]==x)){
14 .
                 found=1;
15
16
                 break;
17
             }
18
             else if(a[j]-a[i]< x){
19
                 j++;
20
             }
             else{
21
22
                 i++;
23
24
25
         printf("%d",found);
26
         return 0;
   }
27
```

	Input	Expected	Got	
<b>~</b>	3	1	1	~
	1 3 5			
	4			
<b>~</b>	10	1	1	~
	1 4 6 8 12 14 15 20 21 25			
	1			
~	10	0	0	~
	1 2 3 5 11 14 16 24 28 29			
	0			
~	10	1	1	~
	0 2 3 7 13 14 15 20 24 25			
	10			

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.