



Started on	Friday, 31 October 2025, 2:19 PM
State	Finished
Completed on	Friday, 31 October 2025, 2:20 PM
Time taken	45 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 != 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>
 1
 3 ▼
    int main() {
 4
        int n;
        scanf("%d", &n);
 5
 6
 7
        int A[n];
 8
        for (int i = 0; i < n; i++)
            scanf("%d", &A[i]);
 9
10
        int k;
11
        scanf("%d", &k);
12
13
14
        int i = 0, j = 1;
15
        int found = 0;
16
        while (i < n && j < n) \{
17 v
18
            int diff = A[j] - A[i];
19
            if (diff == k && i != j) {
20
                 found = 1;
21
22
                 break;
            } else if (diff < k) {</pre>
23 🔻
24
                 j++;
25 🔻
            } else {
26
                 i++;
27
28
        }
29
30
        printf("%d\n", found);
31
32
        return 0;
```

33 } 34

	Input	Expected	Got	
~	3	1	1	~
	1 3 5			
	4			
~	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.

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