
Started on Sunday, 16 November 2025, 8:47 PM

State Finished

Completed on Sunday, 16 November 2025, 8:48 PM

Time taken 1 min 22 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 $A[j] - A[i] = k$, $i \neq j$.

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
1 3 5	
4	

Answer: (penalty regime: 0 %)

```
1 | #include <stdio.h>
```

```

1
2
3 int main() {
4     int n;
5     scanf("%d", &n);
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    int i = 0, j = 1, found = 0;
14
15    while (i < n && j < n) {
16        int diff = A[j] - A[i];
17
18        if (i != j && diff == k) {
19            found = 1;
20            break;
21        }
22        if (diff < k) j++;
23        else i++;
24    }
25
26    printf("%d", found);
27    return 0;
28}
29

```

	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.

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