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Started on	Tuesday, 12 November 2024, 9:10 AM
State	Finished
Completed on	Tuesday, 12 November 2024, 9:10 AM
Time taken	12 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 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 a[n];
6     for (int i = 0; i < n; i++) {
7         scanf("%d", &a[i]);
8     }
9     scanf("%d", &k);
10    for (int i = 0; i < n; i++) {
11        for (int j = i + 1; j < n; j++) {
12            if (a[j] - a[i] == k) {
13                printf("1\n");
14                return 0;
15            }
16        }
17    }
18    printf("0\n");
19    return 0;
20 }
```

	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.

◀ 5-Pair with Difference-O(n^2)Time Complexity,O(1) Space Complexity

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