



JAYARAMAN S 2024-CSE ▾

J2

**Started on** Monday, 3 November 2025, 3:30 AM**State** Finished**Completed on** Monday, 3 November 2025, 3:31 AM**Time taken** 36 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
3  int main() {
4      int n;
5      scanf("%d", &n);
6      int arr[n];
7
8      for (int i = 0; i < n; i++)
9          scanf("%d", &arr[i]);
10
11     int k;
12     scanf("%d", &k);
13
14     int found = 0;
15
16     for (int i = 0; i < n; i++) {
17         for (int j = 0; j < n; j++) {
18             if (i != j && arr[j] - arr[i] == k) {
19                 found = 1;
20                 break;
21             }
22         }
23         if (found)
24             break;
25     }
26
27     printf("%d\n", found);
28     return 0;
29 }
30

```

	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.

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