## CS23331-Design and Analysis of Algorithms-2023 Batch-CS

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```
        Status
        Finished

        Started
        Tuesday, 22 April 2025, 3:34 PM

        Completed
        Tuesday, 22 April 2025, 3:38 PM

        Duration
        3 mins 58 secs

        Marks
        1.00/1.00

        Grade
        4.00 out of 4.00 (100%)
```

Question **1** Correct Mark 1.00 out of 1.00

Flag question

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 %)

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.

Finish review

→ 4-Print Intersection of 2 sorted arrays-O(m+n)Time Complexity,O(1) Space Complexity

Juliip	

6-Pair with Difference -O(n) Time Complexity,O(1)

Space Complexity ►