```
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>
 2 v int find_pair_with_difference(int A[], int n, int k) {
 3 ▼
        for (int i = 0; i < n; i++) {
            for (int j = i + 1; j < n; j++) {
4 ▼
 5 🔻
                if (A[j] - A[i] == k) {
 6
                    return 1;
 7
 8
            }
9
        }
10
        return 0;
11
12 v int main() {
13
        int n, k;
        scanf("%d", &n);
14
15
16
        int A[n];
17
        for (int i = 0; i < n; i++) {
            scanf("%d", &A[i]);
18
19
20
        scanf("%d", &k);
21
        int result = find_pair_with_difference(A, n, k);
22
        printf("%d\n", result);
23
        return 0;
   }
24
25
```

	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.

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

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