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| Dashbo... / Mycour... | / CS23331-DAA-2023-... / Competitive Program... | / 6-Pair with Difference -O(n) Time Com... |
| Started on | Tuesday, 5 November 2024, 2:38 PM |  |
| State | Finished |  |
| Completed on | Tuesday, 5 November 2024, 2:45 PM |  |
| Time taken | 7 mins 14 secs |  |
| Marks | I .00/1.00 |  |
| Grade | 4.00 out of 4.00 (100%) |  |

Question

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] - Ali] 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  3  4  5 ,  6  7  8  9  10  11  12  13  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32 | #include <stdio.h> int findPairWithDifference(int arr[] , int n, int i 1;  while (j int diff = arr[j] arr[i] ;  if (diff k i return 1;  } else if (diff  } else {      return  int main() int n, k; scanf( "%d" &n);  int arr[n];  for (int i scanf(  i  scanf( /od &k); int -Fi ndPÄi rlAli thDi -FFprpncp( | | int k) { |
| 34  35  36  37  38 | printf("%d\n"  return e; | result); | |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | Input | | |  |  |  |  |  | Expected | Got |  | |  | 3  1 3 5  4 | |  |  |  |  |  |  | 1 | 1 |  | |  | 10    1 | 6 | 8 | 12 | 14 | 15 | 20 | 21 25 | 1 | 1 |  | |  | 10 | 3 | 5 | 11 | 14 | 16 | 24 | 28 29 |  |  |  | |  | 10    10 | 3 | 7 | 13 | 14 | 15 |  | 24 25 | 1 | 1 |  |   Passed all tests! | | | |

Correct

Marks for this submission: 1.00/1.00.

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

Jump to...