Q Search

rudhran_b_2020_1 >

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PL-2020-C-Check pair with difference k

locked

Problem

Submissions

Leaderboard

Discussions

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[i] - A[j] = k, i!=j.

Input Format

- 1. First line is number of test cases T. Following T lines contain:
- 2. N, followed by N integers of the array
- 3. The non-negative integer k

Constraints

Output Format

Print 1 if such a pair exists and 0 if it doesn't.

Sample Input 0

3 1 3 5

Sample Output 0

1

Sample Input 1

3 1 3 5

Sample Output 1

0

Submissions: 950 Max Score: 100

Difficulty: Medium

Rate This Challenge:

More

Run Code

Submit Code

```
C
                                                                                                              0
 1 ▼#include <stdio.h>
2
   #include <string.h>
3
    #include <math.h>
   #include <stdlib.h>
 5
   int checkpair(int* A, int N, int k)
 6
 7 ▼{
8 ▼
      for (int i = 0; i < N; i++) {
        for (int j = 0; j < N; j++) {
9 ▼
          if (i != j && A[i] - A[j] == k) {
10 ▼
11
            return 1;
12
13
        }
14
     }
15
      return 0;
16
17
18 vint main() {
19
      int T;
20
      scanf("%d",&T);
      for (int i = 0; i < T; i++) {
21
22
        int N;
        scanf("%d",&N);
23
24 ▼
        int A[N];
        for (int j = 0; j < N; j++) {
25 ▼
          scanf("%d", &A[j]);
26 ▼
27
        }
        int k;
28
        scanf("%d",&k);
29
30 ▼
        if(checkpair(A,N,k)){
31
            printf("1\n");
        }
32
        else{
33
            printf("0\n");
34
35
36
37
       }
38
       return 0;
39
40
41
                                                                                                       Line: 1 Col: 1
```

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<u>♣ Upload Code as File</u> Test against custom input