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Test Name: Mock Test

Taken On: 6 Dec 2022 04:45:01 IST

Time Taken: 5 min 23 sec/ 60 min

Invited by: Ankush

Invited on: 6 Dec 2022 04:44:53 IST

Skills Score:

Tags Score: Algorithms 75/75

Basic Programming 0/110

Core CS 75/185

General Programming 0/110

Medium 75/185

Search 75/75

problem-solving 75/185

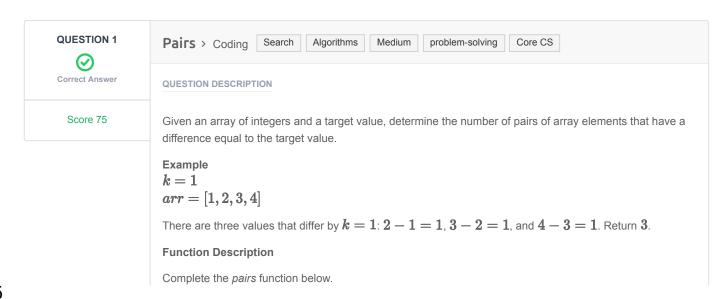


scored in **Mock Test** in 5 min 23 sec on 6 Dec 2022 04:45:01 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Pairs > Coding	4 min 37 sec	75/ 75	Ø
Q2	Almost Sorted > Coding	32 sec	0/ 110	8



pairs has the following parameter(s):

- int k: an integer, the target difference
- int arr[n]: an array of integers

Returns

• int: the number of pairs that satisfy the criterion

Input Format

The first line contains two space-separated integers n and k, the size of arr and the target value. The second line contains n space-separated integers of the array arr.

Constraints

- $2 \le n \le 10^5$
- $0 < k < 10^9$
- $0 < arr[i] < 2^{31} 1$
- ullet each integer arr[i] will be unique

Sample Input

Sample Output

3

Explanation

There are 3 pairs of integers in the set with a difference of 2: [5,3], [4,2] and [3,1]. .

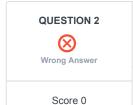
CANDIDATE ANSWER

Language used: Java 8

```
1 class Result {
       * Complete the 'pairs' function below.
4
      * The function is expected to return an INTEGER.
       * The function accepts following parameters:
8
       * 1. INTEGER k
      * 2. INTEGER_ARRAY arr
      */
     public static int pairs(int k, List<Integer> arr) {
      int result = 0;
          Collections.sort(arr);
         int startIndex = 0;
          int finalIndex = 0;
          while(startIndex < arr.size() && finalIndex < arr.size()){</pre>
           while(finalIndex < arr.size() && arr.get(finalIndex) -</pre>
21 arr.get(startIndex) < k) finalIndex++;</pre>
               if(finalIndex < arr.size() && arr.get(finalIndex) -</pre>
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	Success	5	0.1186 sec	29.7 KB
Testcase 2	Easy	Hidden case	Success	5	0.102 sec	30 KB
Testcase 3	Easy	Hidden case	Success	5	0.1101 sec	30.3 KB
Testcase 4	Easy	Hidden case	Success	5	0.1237 sec	30 KB
Testcase 5	Easy	Hidden case	Success	5	0.122 sec	30 KB
Testcase 6	Easy	Hidden case	Success	5	0.1672 sec	31.5 KB
Testcase 7	Easy	Hidden case	Success	5	0.2098 sec	31.7 KB
Testcase 8	Easy	Hidden case	Success	5	0.1382 sec	30.5 KB
Testcase 9	Easy	Hidden case	Success	5	0.1962 sec	31 KB
Testcase 10	Easy	Hidden case	Success	5	0.1839 sec	32.4 KB
Testcase 11	Easy	Hidden case	Success	5	0.2681 sec	46.4 KB
Testcase 12	Easy	Hidden case	Success	5	0.2912 sec	46.6 KB
Testcase 13	Easy	Hidden case	Success	5	0.3269 sec	46.1 KB
Testcase 14	Easy	Hidden case	Success	5	0.2333 sec	47.3 KB
Testcase 15	Easy	Hidden case	Success	5	0.3098 sec	48 KB
Testcase 16	Easy	Sample case	Success	0	0.1174 sec	29.6 KB
Testcase 17	Easy	Sample case	Success	0	0.1001 sec	29.7 KB
Testcase 18	Easy	Sample case	Success	0	0.1223 sec	30 KB

No Comments





QUESTION DESCRIPTION

Given an array of integers, determine whether the array can be sorted in ascending order using only one of the following operations one time.

Core CS

- 1. Swap two elements.
- 2. Reverse one sub-segment.

Determine whether one, both or neither of the operations will complete the task. Output is as follows.

- 1. If the array is already sorted, output yes on the first line. You do not need to output anything else.
- 2. If you can sort this array using one single operation (from the two permitted operations) then output

yes on the first line and then:

- If elements can only be swapped, d[l] and d[r], output $swap \ l \ r$ in the second line. l and r are the indices of the elements to be swapped, assuming that the array is indexed from 1 to n.
- If elements can only be reversed, for the segment $d[l\dots r]$, output reverse l r in the second line. l and r are the indices of the first and last elements of the subarray to be reversed, assuming that the array is indexed from 1 to n. Here $d[l\dots r]$ represents the subarray that begins at index l and ends at index r, both inclusive.

If an array can be sorted both ways, by using either swap or reverse, choose swap.

3. If the array cannot be sorted either way, output *no* on the first line.

Example

$$arr = [2, 3, 5, 4]$$

Either swap the $\bf 4$ and $\bf 5$ at indices 3 and 4, or reverse them to sort the array. As mentioned above, swap is preferred over reverse. Choose swap. On the first line, print yes. On the second line, print swap 3 4.

Function Description

Complete the almostSorted function in the editor below.

almostSorted has the following parameter(s):

• int arr[n]: an array of integers

Prints

Print the results as described and return nothing.

Input Format

The first line contains a single integer n, the size of arr.

The next line contains n space-separated integers arr[i] where $1 \leq i \leq n$.

Constraints

```
2 \leq n \leq 100000 0 \leq arr[i] \leq 1000000 All arr[i] are distinct.
```

Output Format

- 1. If the array is already sorted, output yes on the first line. You do not need to output anything else.
- 2. If you can sort this array using one single operation (from the two permitted operations) then output yes on the first line and then:
 - **a.** If elements can be swapped, d[l] and d[r], output swap lr in the second line. l and r are the indices of the elements to be swapped, assuming that the array is indexed from l to l.
 - **b.** Otherwise, when reversing the segment d[l...r], output *reverse I r* in the second line. l and r are the indices of the first and last elements of the subsequence to be reversed, assuming that the array is indexed from l to l.
 - $d[l \dots r]$ represents the sub-sequence of the array, beginning at index l and ending at index r, both inclusive.

If an array can be sorted by either swapping or reversing, choose swap.

3. If you cannot sort the array either way, output no on the first line.

Sample Input 1

```
STDIN Function

-----
2 arr[] size n = 2
4 2 arr = [4, 2]
```

Sample Output 1

```
yes
swap 1 2
```

Explanation 1

You can either swap(1, 2) or reverse(1, 2). You prefer swap.

Sample Input 2

```
3
3 1 2
```

Sample Output 2

```
no
```

Explanation 2

It is impossible to sort by one single operation.

Sample Input 3

```
6
1 5 4 3 2 6
```

Sample Output 3

```
yes
reverse 2 5
```

Explanation 3

You can reverse the sub-array d[2...5] = "5 4 3 2", then the array becomes sorted.

CANDIDATE ANSWER

Language used: Java 8

```
class Result {

/*
    * Complete the 'almostSorted' function below.

* The function accepts INTEGER_ARRAY arr as parameter.

*/

public static void almostSorted(List<Integer> arr) {

// Write your code here

}

// Write your code here

// Write your code here
```

Testcase 3 Easy Hidden case	
Testcase 5 Easy Hidden case Wrong Answer 0 0.1869 sec 42.1 KB Testcase 6 Easy Hidden case Wrong Answer 0 0.1905 sec 42 KB Testcase 7 Easy Hidden case Wrong Answer 0 0.1904 sec 42.7 KB Testcase 8 Easy Hidden case Wrong Answer 0 0.2346 sec 42.6 KB Testcase 9 Easy Hidden case Wrong Answer 0 0.1683 sec 42.6 KB Testcase 10 Easy Hidden case Wrong Answer 0 0.2352 sec 42.3 KB Testcase 11 Easy Hidden case Wrong Answer 0 0.1682 sec 42.6 KB Testcase 12 Easy Hidden case Wrong Answer 0 0.1821 sec 42.5 KB Testcase 13 Easy Hidden case Wrong Answer 0 0.2135 sec 42.4 KB Testcase 14 Easy Hidden case Wrong Answer 0 0.1547 sec 42.3 KB Testcase 15 Easy Hidden case Wrong Answer 0 0.1806 sec 42.6 KB Testcase 16 Easy Hidden case Wrong Answer 0 0.2038 sec 42.6 KB Testcase 17 Easy Hidden case Wrong Answer 0 0.1878 sec 42.6 KB	
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Testcase 19 Easy Hidden case ⊗ Wrong Answer 0 0.2563 sec 42.2 KB	
Testcase 20 Easy Hidden case ⊗ Wrong Answer 0 0.2509 sec 41.6 KB	
Testcase 21 Easy Sample case ⊗ Wrong Answer 0 0.1446 sec 29.4 KB	
Testcase 22 Easy Sample case ⊗ Wrong Answer 0 0.1087 sec 29.7 KB	
Testcase 23 Easy Hidden case ⊗ Wrong Answer 0 0.1287 sec 29.8 KB	
Testcase 24 Easy Hidden case ⊗ Wrong Answer 0 0.0979 sec 29.8 KB	
Testcase 25 Easy Hidden case ⊗ Wrong Answer 0 0.1013 sec 29.3 KB	

No Comments

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