

ASK/VIEW DOUBT

SOLUTION

HINT

Problem

Result

Send Feedback

Pairs with difference K

Send Feedback

You are given with an array of integers and an integer K. Write a program to find and print all pairs which have difference K.

Take difference as absolute.

Input Format :

Line 1 : Integer n, Size of array

Line 2 : Array elements (separated by space)

Line 3 : K

Output format :

Print pairs in different lines (pair elements separated by space). In a pair, smaller element should be printed first.

(Order of different pairs is not important)

Constraints :

0 <= n <= 10^4

Sample Input 1 :

4

5 1 2 4

3

Sample Output 1 :

2 5

1 4

Sample Input 2 :

4

4 4 4 4

0

Sample Output 2 :

4 4

4 4

4 4

4 4

4 4

4 4

#include<unordered\_map>

void printPairs(int \*arr, int n, int k) {

// Write your code here

unordered\_map<int,int> a;

for(int i=0;i<n;i++){

if(a.count(arr[i])>0){

a[arr[i]]++;

}

else{

a[arr[i]]=1;

}

}

for(int i=0;i<n;i++){

if(k==0){

int s = a[arr[i]];

int count=(s\*(s-1))/2;

for(int j=0;j<count;j++){

cout<<arr[i]<<" "<<arr[i]<<endl;

a.erase(arr[i]);

}

else{

int s = a[arr[i]-k] \* a[arr[i]];

int d = a[arr[i]] \* a[k+arr[i]];

while(s>0){

//cout<<arr[i]<<"y";

cout<<min(arr[i]-k,arr[i])<<" "<<max(arr[i]-k,arr[i])<<endl;

s--;

}

while(d>0){

//cout<<arr[i]<<"n";

cout<<min(k+arr[i],arr[i])<<" "<<max(k+arr[i],arr[i])<<endl;

}

}

}

< PREVIOUS

> NEXT

CUSTOM INPUT

SUBMIT SOLUTION

100%