**Check if array contains contiguous integers with duplicates allowed**

Submissions: [11405](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2933)  Accuracy:

46.8%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

Associated Course(s): [Sudo Placement [IITs]](https://practice.geeksforgeeks.org/courses/sudo%20placement-IIT/)

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Given an array of n integers(duplicates allowed). Print “Yes” if it is a set of contiguous integers else print “No”.

**INPUT:** The first line consists of an integer T i.e. the number of test cases. First line of each test case consists of an integer n, denoting the size of array. Next line consists of n spaced integers, denoting elements of array.

**OUTPUT:** Print “Yes” if it is a set of contiguous integers else print “No”.

**CONSTRAINTS:**  
1<=T<=100  
1<=n<100000  
a[i]<=105

**Example:**

 2  
8  
5  2  3  6  4  4  6  6  
7  
10  14  10  12  12  13  15

**Output :**  
 Yes  
 No

**Explanation**:  
Test Case 1 : The elements  of array form a contiguous set of integers which is {2, 3, 4, 5, 6} so the output is Yes.  
Test Case 2: We are unable to form contiguous set of integers usingelements of array.

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/check-if-array-contains-contiguous-integers-with-duplicates-allowed/0#ExpectOP) option \*\*

<https://practice.geeksforgeeks.org/problems/check-if-array-contains-contiguous-integers-with-duplicates-allowed/0>

#include <iostream>

#include <stdio.h>

#include <math.h>

#include <set>

#include <limits.h>

using namespace std;

int minimo(int a, int b) {

if(a < b) return a;

return b;

}

string EsConsecutivo(int arr[], int n)

{

int m = INT\_MAX;

set<int> hash;

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

m = minimo(m, arr[i]);

hash.insert(arr[i]);

}

//cout << m << endl;

int j = m;

int cont = 1;

while (hash.find(j + 1) != hash.end())

{

cont++;

j++;

}

return cont == hash.size() ? "Yes" : "No";

}

int main()

{

int t;

scanf("%d", &t);

while(t-- ) {

int n;

scanf("%d", &n);

int arr[n];

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

int elem;

scanf("%d", &elem);

arr[i] = elem;

}

cout << EsConsecutivo(arr, n) << endl;

}

return 0;

}

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}

return 0;

}