Problem Statement

You are given a password of length N in form of an array. You have to check if the password is valid or not.

A valid password is a password in which the occurrence of each element is unique (Refer to sample I/O).

Print true if the password is valid, otherwise print false.

Input Format

The first line contains the length of the password array.

The second line contains N numbers each denoting the value at an index.

Output Format

You have to print true or false depending upon the validity of the password.

Constraints

* 1<= Size of password array<= 10^5
* 0<=Value at any index is<=10000

Sample Testcase 0

Testcase Input

6 1 2 2 1 1 3

Testcase Output

true

Explanation

The value 1 has 3 occurrences, 2 has 2 and 3 has 1. No two values have the same number of occurrences.

So, it is a valid password.

Sample Testcase 1

Testcase Input

3 1 2 3

Testcase Output

false

Explanation

1,2and 3 has occurred 1 time each. So the number of occurrence is same for three numbers because of which the password becomes invalid.

import java.io.\*;

import java.util.\*;

import java.text.\*;

import java.math.\*;

import java.util.regex.\*;

class Main {

    public static void main(String[] args) {

        /\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

        Scanner sc=new Scanner(System.in);

        int n=sc.nextInt();

        int[] arr=new int[n];

        for(int i=0;i<n;i++){

            arr[i]=sc.nextInt();

        }

        int curr=arr[0];

        Map<Integer, Integer> freqMap = new HashMap<>();

        for(int num : arr) {

            freqMap.put(num, freqMap.getOrDefault(num, 0) + 1);

        }

        Set<Integer> freqSet = new HashSet<>(freqMap.values());

        System.out.println(freqMap.size() == freqSet.size());

    }

}