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| **Matryoshka Dolls**    Problem code: AMR14D | * [SUBMIT](https://www.codechef.com/submit/AMR14D) * [MY SUBMISSIONS](https://www.codechef.com/status/AMR14D,nacho0monllor) * [ALL SUBMISSIONS](https://www.codechef.com/status/AMR14D) |

**All submissions for this problem are available.**

The Cricket World Cup 2015 is nearing and it will be held in Australia and New Zealand. The organizing committee is planning to give a welcome gift to each team member. After careful thought and planning, they have decided on Matryoshka dolls.

A Matryoshka doll refers to a set of wooden dolls of strictly decreasing size, placed one inside the other. Any doll can contain only one doll directly inside it.

Given the sizes of N dolls, output "YES" if it is possible to nest them all and have one doll on the outside and "NO" otherwise.

**Input -**  
The input starts with T denoting the number of test cases. For each test case, the first line contains N, which is the total number of dolls.  
The second line contains N space separated integers denoting the size of the dolls.

**Output -**  
Print “YES” if the dolls can be nested inside each other and “NO” otherwise. (quotes for clarity)

**Constraints -**  
1 <= T <= 100  
1 <= N <= 100  
1 <= doll size <= 1000

**Sample Input -**   
3  
3  
3 1 1  
2   
1 2  
4  
10 2 5 3

**Sample Output -**  
NO  
YES  
YES

**Explanation -**  
For the first case, there are 2 dolls of size 1 and hence cannot be nested inside each other.  
For the second case, the doll with size 1 can be put inside the doll with size 2.

<https://www.codechef.com/problems/AMR14D>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

int t = int.Parse(Console.ReadLine());

while (t-- > 0)

{

int n = int.Parse(Console.ReadLine());

string[] elems = Console.ReadLine().Split(' ');

int[] tams = Array.ConvertAll(elems, e => int.Parse(e));

var diccio = new Dictionary<int, int>();

foreach (int el in tams)

{

if (diccio.ContainsKey(el))

{

diccio[el]++;

}

else

{

diccio[el] = 1;

}

}

string ans = "YES";

foreach (KeyValuePair<int, int> kvp in diccio)

{

//si hay mas de uno es porque hay 2 elementos iguales, por lo tanto no se pueden encastrar

if (kvp.Value > 1)

{

ans = "NO";

break;

}

}

Console.WriteLine(ans);

}

Console.ReadLine();

}

}

}