DSA Lab 9

Q3 Write a program to check if a given binary tree is a BST or not .

CONSTRAINTS

1<= T <= 100

1<= N <= 10000

1<= Ai <= 100000

Input

First line has T, no. Of testcases.

First line of test case has N, no of nodes in list

This is followed by N space separated integers Ai.

Sample

Input #1

1

10

4516731012118

Output

NO

Input #2

1

5

42513

Output

YES