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- EASY
- Max Score: 30 Points
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Inorder Traversal and BST

Given an array arr of size N, write a program that returns 1 if array represents Inorder traversal of a BST, else returns 0.

Note: All keys in BST must be unique.

Input

The first line inputs N, the number of nodes.

The second line inputs the value of N nodes of the BST.

Constraints:

1 ≤ N ≤ 1000 1 ≤ arr[i] ≤ 1000

Output

Print 1 if array represents Inorder traversal of a BST, else 0.

Example

Input:

```
7
2 41 42 66 81 87 90
```

Output:

```
1
```

Topic Tags

- BST

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
  static int check(int arr[],int n)
  {
     for(int i=0;i<n-1;i++)
       if(arr[i]>arr[i+1])
         return 1;
    return 0;
  }

        public static void main (String[] args) throws
java.lang.Exception
        {
                //your code here
        Scanner s=new Scanner(System.in);
      int n=s.nextInt();
      int arr[]=new int[n];
      for(int i=0;i<n;i++)
```

```
      {
       arr[i]=s.nextInt();
      }
     int i=check(arr,n);
      //we know bst is incresing inorder
      if(i==1)
        System.out.print("0");
        else  System.out.print("1");

        }
}
```