- **EASY**
- **Max Score: 30 Points**
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Sorted Linked List

Given the head of a linked list, check whether the linked list is sorted.

Linked List Structure:

```
public class Node
{
    int data;
    Node next;
    Node(int d) {data = d; next = null; }
}
public class LinkedList
{
    Node head;
    Node tail;
}
```

Example:

If your list is `[5, 5, 7, 9]`, **the output should be** `YES`.

Input Format

You will be provided with the linked list's head.

Output Format

Output `YES` **if the list is sorted, else output** `NO`.

Example 1

Input

```
4
5 5 7 9
```

Output:

```
YES
```

Example 2

Input

```
2
5 2
```

Output:

```
NO
```

Constraints

```
1 <= n <= 10^5
```

- **Linked lists**

My code

```java
// in java
import java.util.*;
import java.lang.*;
```

```java
import java.io.*;

class Node
{
    int data;
    Node next;

    Node(int data, Node next)
    {
        this.data = data;
        this.next = next;
    }

    Node() {}
}

public class Main
{

  static void check(Node h)
  {
    Node p=h;
    while(p.next!=null)
      {
      if(p.data>p.next.data)
      {
       System.out.print("NO");
            return;
      }
        p=p.next;
      }
         System.out.print("YES");
```

```java
    }
        public static void main (String[] args) throws java.lang.Exception
        {
            //your code here
        Scanner s=new Scanner(System.in);
            int n=s.nextInt();
        Node a=null;
        int arr[]=new int[n];
for(int i=0;i<n;i++)
  arr[i]=s.nextInt();
 for(int i=n;i>0;i--)
   a=new Node(arr[i-1], a);
 check(a);


        }
}
```