## horizontal line

**Sort linked list using merge sort**

# **Problem Statements :**

Given a linked list with n nodes. Sort the linked list using merge sort.

# **Input Format :**

First line contains the number of nodes in the linked list n and then next line contains n space separated integers representing the node values of the linked list.

# **Constraints :**

n < 10^4

# **Output Format :**

Print the linked list after sorting it using merge sort.

# **Sample Input :**

5  
2 3 4 1 5

**Sample Output :**

1 2 3 4 5

**Explanation :**

None

**Time Limit : 1 sec**