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| --- |
| public class LinkedList |
|  | { |
|  | static class Node |
|  | { |
|  | int data; |
|  | Node next; |
|  | Node(int d) |
|  | { |
|  | data = d; |
|  | next = null; |
|  | } |
|  | } |
|  | Node head; |
|  | LinkedList() |
|  | { |
|  | head = null; |
|  | } |
|  | void sortedInsert(Node new\_node) |
|  | { |
|  | Node current = head; |
|  | if (current == null) |
|  | { |
|  | new\_node.next = new\_node; |
|  | head = new\_node; |
|  | } |
|  | else if (current.data >= new\_node.data) |
|  | { |
|  | while (current.next != head) |
|  | current = current.next; |
|  | current.next = new\_node; |
|  | new\_node.next = head; |
|  | head = new\_node; |
|  | } |
|  | else |
|  | { |
|  | while (current.next != head && current.next.data < new\_node.data) |
|  | current = current.next; |
|  | new\_node.next = current.next; |
|  | current.next = new\_node; |
|  | } |
|  | } |
|  | void printList() |
|  | { |
|  | if (head != null) |
|  | { |
|  | Node temp = head; |
|  | do |
|  | { |
|  | System.out.print(temp.data + " "); |
|  | temp = temp.next; |
|  | } while (temp != head); |
|  | } |
|  | } |
|  | public static void main(String[] args) |
|  | { |
|  | LinkedList list = new LinkedList(); |
|  | int arr[] = new int[] {12, 56, 2, 11, 1, 90}; |
|  | Node temp = null; |
|  | for (int i = 0; i < 6; i++) |
|  | { |
|  | temp = new Node(arr[i]); |
|  | list.sortedInsert(temp); |
|  | } |
|  | list.printList(); |
|  | } |
|  | } |