

Insertion Sort Code:

```
public void sort() {
    DNode black = this.head;
    while (black != null) {
        DNode red = black.getPrevNode();
        while (red != null && (red.getData() > black.getData())) {
            red = red.getPrevNode();
        }
        DNode green = black.getNextNode(); // step 2.0
        if (red != null || (head != black)) {
            black.getPrevNode().setNextNode(green); // step 2.1
            if (green != null) {
                green.setPrevNode(black.getPrevNode()); // step 2.2
            }
            black.setPrevNode(red); // step 2.3
        }
        if (red == null) { // set the black as head
            if (head != black) {
                black.setNextNode(this.head); // step 2.4
                black.getNextNode().setPrevNode(black); // step 2.5
                head = black; // step 2.6
            }
        } else { // red is not null
            black.setNextNode(red.getNextNode()); // step 2.4
            red.getNextNode().setPrevNode(black); // step 2.5
            red.setNextNode(black); // step 2.6
        }
        black = green;
    }
}
```

Circular Double Linked List:

