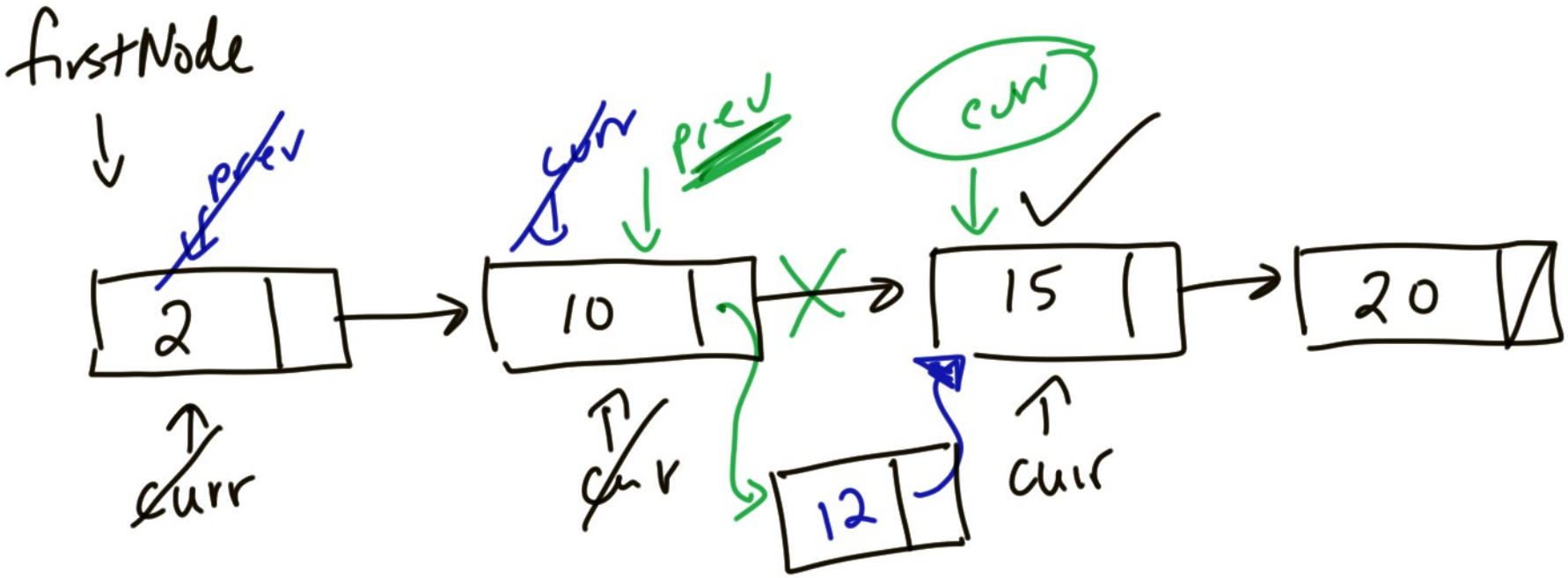


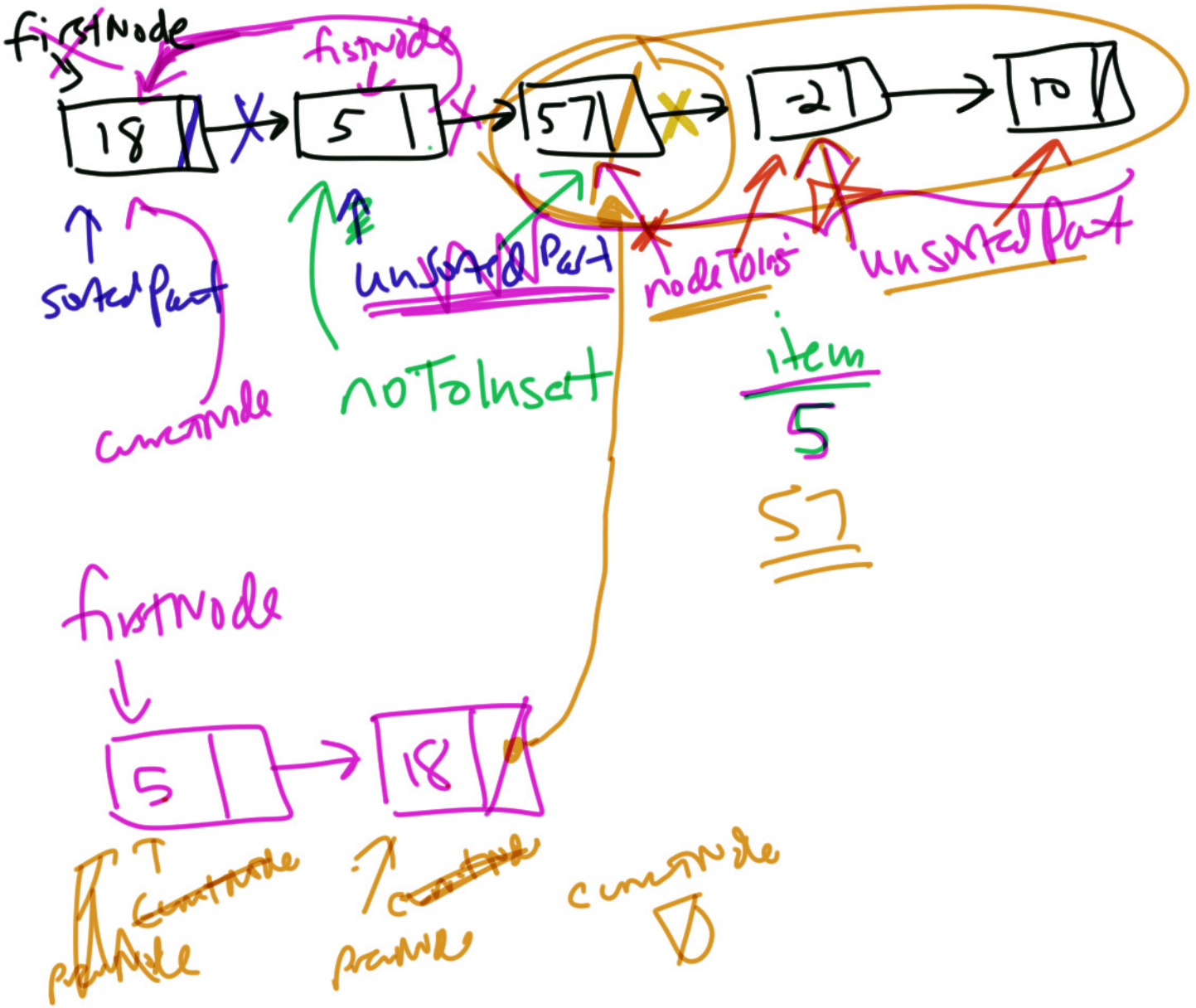
1) figure out where 12 belongs ✓

2) rearrange insert correctly

Insert into an ordered list

```
35    public void insertionSort() {
36        if (numberOfEntries > 1) {
37            //Break chain into 2 pieces: sorted and unsorted
38            Node unsortedPart = firstNode.getNext();
39            Node sortedpart = firstNode;
40            sortedpart.setNext(null);
41
42            while (unsortedPart != null) {
43                Node nodeToInsert = unsortedPart;
44                unsortedPart = unsortedPart.getNext();
45                insertInOrder(nodeToInsert);
46            }
47        }
48    }
49
```

```
49
50      private void insertInOrder(Node nodeToInsert){
51          T item = nodeToInsert.getData();
52          Node currentNode = firstNode;
53          Node previousNode = null;
54
55          //Locate insertion point
56          while (( currentNode != null) &&
57              (item.compareTo(currentNode.getData()) > 0)){
58                  previousNode = currentNode;
59                  currentNode = currentNode.getNext();
60          }
61
62          //Make the insertion
63          if (previousNode != null) {
64              //Insert better previous and current Node
65              previousNode.setNext(nodeToInsert);
66              nodeToInsert.setNext(currentNode);
67          } else {
68              // insert at the beginning
69              nodeToInsert.setNext(firstNode);
70              firstNode = nodeToInsert;
71          }
72
```


firstNode
18
5
57
21
10
sortedPart
unsortedPart
nodeToIns
unsortedPart
curNode
noToInsert
item
5
57
firstNode
5
18
curNode
curNode