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Part 1: Lists
HINT: Get out some pen and paper!
Given a class representing a singly linked list with a firstNode field,
a numberOfEntries field, and a getNodeAt(int givenPosition) method,
implement the following methods. The Node class only has a setNextNode
method. Refer to the lecture notes for examples of other method
implementations:
1.
/**
* Remove the middle element of the list. If the middle is between
* two nodes, remove the node to the right.
* @return the node removed
* @throws EmptyListException if the list is empty.
*/
public Node<T> removeMiddle() {
}
2.
* Add the newNode object to the middle of the list. If the middle
* is not between two nodes, add the node to the right.
* @param newNode is the node to add
* /
public void addToMiddle(Node<T> newNode) {
}
3.
* Reverse the order of the list.
public void reverseList() {
}
4.
/**
* Swap the positions of node1 and node2
* @Precondition numberOfEntries == 2 || bounded by other nodes
* @param pos1 is the position of the first node
* @param pos2 is the position of the second node
public void swapNodes(int pos1, int pos2) {
Part 2: Debugging
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Ensure that you know how to do the following debugging actions (helpful for lab this week):

- 1. Set a break point.
- 2. Debug a test class to get to the breakpoint.
- 3. View the variables and their values at that break point.
- 4. Step to the next line after the break point.
- 5. Step into a method call.