(a) The program compiles and executes without error. What is the exact output of the `println` statement marked in the code with a 1? (3 Points)

(b) The program compiles and executes without error. What is the exact output of the while loop marked in the code with a 2? (3 Points)

(c) The program compiles and executes without error. What is the exact output of the `println` statement marked in the code with a 3? (3 Points)

(d) State a pre-condition that should be present in the remove method of the List class. (1 Point)

```
head != null or list not empty
```

(e) What is the run time complexity of the `addAlso()` method? (2 Points)

\( \Theta(n) \)

(f) We need a public method for the List class that displays the list in reverse order. This method will be called “displayReversed” and is shown below. It will make use of a recursive method called “reverse” with the signature as shown. Complete the recursive method called “reverse”. (3 Points)

```
private void reverse(Node p) {
    if (p != null) {
        reverse(p.next);
        System.out.print(p);  
    }
}

public void displayReversed() {
    reverse(head);
}
```