

(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)

7 * 2 * 6 * * *

(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)

3 x 2 x | x x x

(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)

7x2x6 ***

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

head 12 NULL ON LIST NOT emp + Y

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

1F (P = NUII) {NEXT ()) Reverse(P.SEENEXT ()) SYSTEM.OUE. Prime (P).

3

}

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