

CSE 143: Computer Programming II

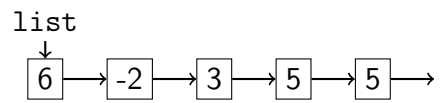
Lecture 7 Exercises

(a) What Does `mystery()` print?

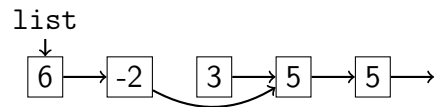
```
1  public static void mystery() {
2      List<Integer> list1 = new ArrayList<Integer>();
3      list1.add(8);
4      list1.add(3);
5
6      List<Integer> list2 = new ArrayList<Integer>();
7
8      list2.add(100);
9
10     List<Integer> list3 = list2;
11
12     list2 = list1;
13
14     list2.add(5);
15
16     list1.add(2);
17
18     System.out.println("A: " + list1);
19     System.out.println("B: " + list2);
20     System.out.println("C: " + list3);
21 }
```

(b) **List-To-List**

Given the following linked list:

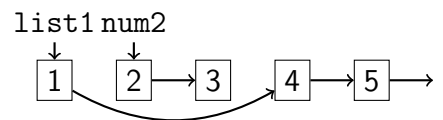


Write code to result in the following list:



(c) **List-To-Code**

Given the following linked list and variables `list1` and `num2`, write code to fix the list so it's in numerical order:



(d) **Together**

Consider the following code. Draw the resulting linked list.

```
1 ListNode node = new ListNode(10, new ListNode(5, new ListNode(15)));
2 ListNode temp = node.next;
3 temp.data = 100;
4 node.next = new ListNode(12, node.next.next.next);
5 node.next.next = temp;
```