CS211 Fall 2013

Dr. Kinga Dobolyi

Exam 2, part 2

Student Name:	·
Student G#:	
Student signature for Honor Code:	

1. Fill in the Junit test cases for the following scenario. The test case MUST reveal the bug as described. (15 points)

Scenario: Imagine you are trying to write a method with the following signature: public ArrayList sortDescending(ArrayList listIn)

This method will sort the incoming objects in descending order, based on their natural sorted ordering, as determined by the **Comparable** interface implementation. You may assume the method will only be called with objects that are **Comparable**, and you should not test for anything else.

The person who coded up this method did a good job, but they were distracted when writing their code, and they never consider the last element in the incoming argument for <code>listIn</code>. That is, the size of the incoming argument and the returned list are the same, but their algorithm does not consider the last element for sorting.

a. Write a Junit test case that would reveal this fault (assume all imports exist):

```
public void test1(){
   //your code here
```

	b.	Now write a test case that would pass on the probreveal the fault we're looking for: public void test2(){ //your code here	olem above, but	would not
	}			
2.	a. A	UE/FALSE. Circle one and justify your answers for A parent's public method can be accessed within the yword.		-
		A parent's private method can be accessed within t yword.	he child using the child using the b. TRUE	he super FALSE
	c. A	An abstract class must contain at least one abstract	method. c. TRUE	FALSE
	d. <i>A</i>	A try-catch block can have multiple catch clauses.	d. TRUE	FALSE
	e. <i>A</i>	A class can implement multiple interfaces.	d. TRUE	FALSE