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Started on	Thursday, 25 March 2021, 14:05
State	Finished
Completed on	Thursday, 25 March 2021, 14:46
Time taken	41 mins 24 secs
Grade	63.33 out of 110.00 (58%)

Question 1

Incorrect

Mark 0.00 out of 10.00

Using your favorite code coverage tool, you add test cases one-by-one, until all reachable statements in your code have been executed at least once.

Which coverage guarantee your code has now?

Select one:

- ☐ a. Statement coverage
- ☐ b. Branch coverage
- ☒ c. Path coverage
- ☐ d. Unit coverage

Your answer is incorrect.

The correct answer is: Statement coverage

Question 2

Correct

Mark 10.00 out of 10.00

Consider the following method:

```
/**
 * Sort a list of integers in nondecreasing order. Modifies the list so that
 * values.get(i) <= values.get(i+1) for all 0<=i<values.length()-1
 */
public static void sort(List<Integer> values) {
    // choose a good algorithm for the size of the list
    if (values.length() < 10) {
        radixSort(values);
    } else if (values.length() < 1000*1000*1000) {
        quickSort(values);
    } else {
        mergeSort(values);
    }
}
```

Which test case of the following test cases are likely to be a **boundary value** produced by **white box testing**?

Select one:

- ☒ a. [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
- ☐ b. the empty list
- ☐ c. [0, 0, 1, 0, 0, 0, 0]
- ☐ d. [1, 2, 3]

Your answer is correct.

The correct answer is: [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]

Question 3

Correct

Mark 10.00 out of 10.00

After fixing a bug that caused test case X fail,
you need to rerun all your JUnit tests, not just test case X.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 4

Incorrect

Mark 0.00 out of 10.00

Which one of these testing activities follows the principle of **regression testing**?

Select one:

- ☐ a. Changes should be tested against all inputs that induced bugs in earlier versions of the code
- ☐ b. Every component in your code should have an associated set of tests that exercises all the corner cases in its specification
- ☐ c. Tests should be written before you write the code as a way of checking your understanding of the specification
- ☒ d. When a new test exposes a bug, you should run it on all previous versions of the code until you find the version where the bug was introduced

Your answer is incorrect.

The correct answer is: Changes should be tested against all inputs that induced bugs in earlier versions of the code

Question 5

Partially correct

Mark 13.33 out of 20.00

Which of these techniques are useful for choosing test cases in test-first programming, **before** any code is written?

Select one or more:

- ☒ Partitioning
- ☒ Boundaries
- ☒ Black box
- ☐ Regression
- ☐ Coverage
- ☐ White box
- ☒ Integration

Your answer is partially correct.

You have selected too many options.

The correct answers are: Partitioning, Boundaries, Black box

Question 6

Correct

Mark 10.00 out of 10.00

Choose the **correct** statement about a regression test case.

Select one:

- ☒ a. A regression test case comes from the discovery of a bug
- ☐ b. A regression test case is chosen from the partitions
- ☐ c. A regression test case can come out of black-box testing
- ☐ d. A regression test case can come out of white-box testing

Your answer is correct.

The correct answer is: A regression test case comes from the discovery of a bug

Question 7

Incorrect

Mark 0.00 out of 10.00

As a temporary substitute for a method that is not yet to be developed, you write a code to simulate the method's functionality. The method can then be called by another method that you want to test.

Such method is called a/an ✖.



Question 8

Correct

Mark 10.00 out of 10.00

Which button to click to get the Java Visualizer run the next line of your code and show the subsequent visualization?

Select one:

- ☒ a. Step Into
- ☐ b. Step Over
- ☐ c. Step Out
- ☐ d. Step Off
- ☐ e. Step On

Your answer is correct.

The correct answer is: Step Into

Question 9

Incorrect

Mark 0.00 out of 10.00

Write one line of Java code that *declares* a `MyList` pointer named `p` and *initializes* it to the current `MyList` object. Do not forget to end it with a semicolon.

Answer: `MyList p = new MyList(100, null);`



The correct answer is: `MyList p = this;`

Question 10

Correct

Mark 10.00 out of 10.00

What is the `println` result of :

```
MyList3 list = new MyList3(100, null);  
list = new MyList3(200, list);  
list = new MyList3(300, list);  
  
System.out.println(list.get(0));
```

Answer: `300`



The correct answer is: 300

Finish review

◀ Lab 4 Recording

Jump to...

Lab Exercise 4.1 MyList Iterativ