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English (en) ▾

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

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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

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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 [unit tessting] ✗ .

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 <u>one line</u> 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