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sneha18157@cse.ssn.edu.in ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Software Testing (course)


Course outline

How does an NPTEL online course work?

Pre-requisite Assignment

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

☐ Mutation testing (unit? unit=73&lesson=74)

☐ Mutation Testing - Mutation for

Week 9: Assignment 9

The due date for submitting this assignment has passed.

Due on 2021-09-29, 23:59 IST.

Assignment submitted on 2021-09-29, 23:51 IST

1) Changing a method call `min(a,b)` to a call `min(b,a)` is an example of which kind **1 point** of mutation operator for program integration testing?

- ☐ Integration Parameter Variable Replacement.
- ☒ Integration Parameter Exchange.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Integration Parameter Exchange.

2) Which of the following mutation operators represent moving an overridden method call up or down by one or two statements? **1 point**

- ☐ Overriding method modification.
- ☐ Overriding method renaming.
- ☐ Overriding method rewriting.
- ☒ Overriding method moving.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Overriding method moving.

3) Which of the following integration mutation operator represents changing the order of arguments in method invocations to be the same as that of another overloading method, if one exists? **1 point**

integration
(unit?
unit=73&lesson=75)

☐ Mutation
testing :
Grammars and
inputs (unit?
unit=73&lesson=76)

☐ Software
Testing
Course:
Summary after
Week 9 (unit?
unit=73&lesson=77)

☐ Week 9
Feedback
Form:
Software
Testing (unit?
unit=73&lesson=78)

☐ Practice: Week
9: Assignment
9 (Non
Graded)
(assessment?
name=118)

☒ **Quiz: Week 9:
Assignment 9
(assessment?
name=132)**

Week 10

Week 11

Week 12

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- ☐ Overloading method change.
- ☐ Argument number change.
- ☒ Argument order change.
- ☐ Reference type change.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Argument order change.

4) State true or false: While applying mutation operators for integration testing, both the callee and the caller methods are considered. **1 point**

- ☒ True
- ☐ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

5) State yes or no: Is there a notion of killing of a mutant while applying mutation testing to inputs? **1 point**

- ☐ Yes
- ☒ No

Yes, the answer is correct.

Score: 1

Accepted Answers:

No

6) Which of the access levels in Java allows access with the same class and within different class but same package? **1 point**

- ☐ Public.
- ☐ Private
- ☐ Protected.
- ☒ Package.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Package.

7) When the mutation operator of hiding variable deletion is applied, what does it cause in the ground string program? **1 point**

- ☐ It removes references to the variable.
- ☐ It hides the variable.
- ☒ It causes references to the variable to access the variable defined in the parent or ancestor.
- ☐ It causes references to the variable to access the variable defined in the child class.

Yes, the answer is correct.

Score: 1

Accepted Answers:

It causes references to the variable to access the variable defined in the parent or ancestor.

8) Which options below have the two kinds of variables associated with a class?

1 point

- ☒ Instance and class variables.
- ☐ Public and private variables.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Instance and class variables.

9) State true or false: XML inputs to a program cannot be mutated as XML language is very complicated. **1 point**

- ☐ True
- ☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

10) State true or false: Weak mutation testing subsumes node and edge coverage criteria in graphs based testing. **1 point**

- ☒ True
- ☐ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True