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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Software Testing (course)Course
outlineHow 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=63&lesson=65)

● Mutation
Testing -
Mutation for

Assignment 9

The due date for submitting this assignment has passed.

Due on 2020-11-18, 23:59 IST.

Assignment submitted on 2020-11-18, 17:09 IST

1) 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.

2) While applying the mutation operator that deletes a method call, how is the value returned by the deleted method passed to the caller method? **1 point**

- ☐ The method itself is deleted, so the call should also be deleted.
☐ The value returned by the deleted method is replaced with a suitable expression in the caller.
☒ The value returned by the deleted method is replaced with a fixed, constant value.
☐ A message is sent to the caller indicating that there is no value to be returned as the method is deleted.

Yes, the answer is correct.
Score: 1

Accepted Answers:
The value returned by the deleted method is replaced with a fixed, constant value.

3) When mutation testing is applied for inputs to programs, which of the following software artifacts are mutated? **1 point**

integration
(unit?
unit=63&lesson=66)

● Mutation
testing :
Grammars and
inputs (unit?
unit=63&lesson=67)

● Software
Testing
Course:
Summary after
Week 9 (unit?
unit=63&lesson=68)

○ Software
testing : Week
9 Feedback
(unit?
unit=63&lesson=69)

● Quiz:
Assignment 9
(assessment?
name=126)

Week 10

Week 11

Week 12

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- ☒ Inputs are mutated.
☐ The program or the ground string is mutated.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Inputs are mutated.

4) 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.

5) How is overloading different from overriding in object oriented programming? **1 point**

- ☒ Overloading occurs between two methods in the same class and overriding occurs between methods in a class and one of its descendants.
☐ Overloading occurs between a method in a class and one of its descendants and overriding occurs between two methods in the same class.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Overloading occurs between two methods in the same class and overriding occurs between methods in a class and one of its descendants.

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 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.
☐ It hides the variable.

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) State true or false: The mutation operators overriding method moving and overriding **1 point** method deletion will cause references to the method on which it is applied to use the parent's version.

☒ True.

☐ False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

True.

9) 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.

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

☐ True.

☒ False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

False.