NPTEL » Software testing Ar

Announcements Abo

About the Course A

Ask a Question

Mentor

Progress

Unit 8 - Week 6

Course outline

How to access the

Pre-requisite

Assignment

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Logic Coverage

Test Code 1

Logic Coverage

Test Code_2

Logic Coverage

Code

Criteria: Issues in

Applying to Test

Logic Coverage

Logic Coverage

Criteria: Applied to

Test Specifications

Criteria: Applied to

Feedback for week 6

Quiz : Assignment 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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No, the answer is incorrect.

No, the answer is incorrect.

active by which of the following?

No, the answer is incorrect.

No, the answer is incorrect.

which of the following entities?

From states of FSMs

No, the answer is incorrect.

From the transitions of FSMs

Accepted Answers:

From the transitions of FSMs

From the initial state of FSMs

From the inputs of FSMs

Accepted Answers:

All other clauses are made true

Accepted Answers:

All other clauses are made true

All other clauses are made false

Accepted Answers:

State true or false: Correlated Active Clause Coverage (CACC) sub- sumes predicate coverage

8) While applying logic coverage criteria to test specifications in conjunctive normal form, a major clause is made

When we transform a predicate to contain only one clause, is it the case that predicate coverage and CACC always 1 point

10)In order to apply logic based coverage criteria over finite state machines, the predicates that are needed come from 1 point

1 point

1 point

Accepted Answers:

Two

True

False

Score: 0

Score: 0

remain the same?

Yes

O No

Score: 0

True

Text Transcripts

Finite State Machines

Criteria: Applied to

Criteria: Applied to

portal

```
Assignment 6
                                                                          Due on 2019-09-11, 23:59 IST.
 The due date for submitting this assignment has passed.
 As per our records you have not submitted this assignment.
 Consider the method below:
 public String twoPred(int x, int y)
 {
 boolean z;
 if (x < y)
 z = true;
 else
 z = false;
 if (z \&\& x+y == 10)
 return ''A'';
 else
 return ''B'';
 }
      Answer the following five questions related to coverage criteria over this method. Please note that the variable z
 needs to be re-written in terms of
 inputs in the second predicate to achieve various coverage criteria. We use the predicate x < y to represent z
 1) How many test inputs are needed to achieve Restricted Active Clause Coverage (RACC) for the method
                                                                                                      1 point
twoPred()?
    One
   Two
   Three
   Four
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  Three
 Which of the following lists predicates that satisfy RACC for the method twoPred()?
                                                                                                      1 point
   \bigcirc x < y:true and x + y == 10:true
   \bigcirc x < y:false and x + y == 10:false
   x < y:true and x + y == 10:true, x < y:false and x + y == 10:true
   x < y:true and x + y == 10:true, x < y:false and x + y == 10:true, x < y:true and x + y
   == 10:false
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  x < y:true and x + y == 10:true, x < y:false and x + y == 10:true, x < y
  y:true and x + y == 10:false
 3) State yes or no: Restricted Inactive Clause Coverage (RICC) has no feasible pairs for the predicate p = (x < y) 1 point
&& (x + y == 10) being true
   Yes
   O No
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
                                                                                                      1 point
 4) Which of the following lists predicates that satisfy RICC for the method twoPred ()?
   \bigcirc x < y:true and x + y == 10:true
   \bigcirc x < y:false and x + y == 10:false
   x < y:true and x + y == 10:true, x < y:false and x + y == 10:true
   x < y: false and x + y == 10: false, x < y: true and x + y == 10: false, x < y: false and x
   + y == 10:true
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  x < y: false and x + y == 10: false, x < y: true and x + y == 10: false, x < y
  y:false and x + y == 10:true
                                                                                                      1 point
 5) Which of the following test values below satisfy RICC for the predicate p, with it being false?
   twoPred(6,5)
   twoPred(6,5), twoPred(4,5) and twoPred(6,4)
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  twoPred(6,5), twoPred(4,5) and twoPred(6,4)
 6) How many test cases will be needed to achieve predicate coverage over a predicate with n clauses?
                                                                                                      1 point
   Two
   n
   n + 1
   2^n
```