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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

Clecture 15 -Data Flow Graph Coverage Criteria:

Applied to Test Code (unit? unit=38&lesson=39)

Clecture 16 -Software Design and Integration Testing (unit? unit=38&lesson=40)

Lecture 17 -Design Integration

Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2021-09-01, 23:59 IST.

Assignment submitted on 2021-09-01, 22:05 IST

1) Which of the following is a graph model used for design integration testing?	1 point
Control flow graph.	
O Data flow graph.	

Call graph

Design graph.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Call graph

2) In design integration, when a caller method $m_{\ 1}$ calls a callee method $m_{\ 2}$, the 1 point

Actual parameters.

Formal parameters.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Actual parameters.

In design integration, when two methods make queries and updates to an external 1 point database, which coupling definition does it represent?

Message passing coupling.

Shared data coupling.

Testing and Graph Coverage (unit? unit=38&lesson=41)

- Clecture 18 Specification
 Testing and
 Graph
 Coverage
 (unit?
 unit=38&lesson=42)
- Cecture 19 Graph
 Coverage and
 Finite state
 Machines
 (unit?
 unit=38&lesson=43)
- Week 4
 Feedback
 Form:
 Software
 Testing (unit?
 unit=38&lesson=44)
- Practice: Week
 4: Assignment
 4 (Non
 Graded)
 (assessment?
 name=113)
- Quiz: Week 4: Assignment 4 (assessment? name=125)

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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- Parameter coupling.
- External device coupling.

Yes, the answer is correct.

Score: 1

Accepted Answers:

External device coupling.

- 4) A simple path from the last definition to the first use of a coupling variable is called **1 point** as
 - A du-path.
 - A coupling du-path.

Yes, the answer is correct.

Score: 1

Accepted Answers:

A coupling du-path.

- 5) State true or false: Are control flow graphs representing code the same as finite **1 point** state machines that represent the same code.
 - True.
 - False.

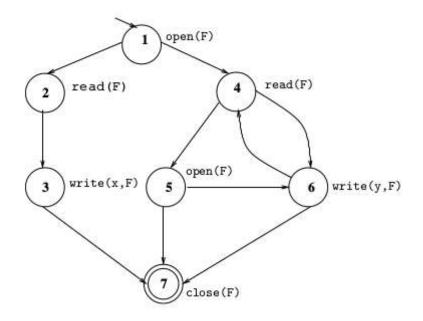
Yes, the answer is correct.

Score: 1

Accepted Answers:

False.

Consider the graph below that depicts the calls to file handler methods open(), close(), read() and write(). Any procedure/method that uses these methods has to satisfy the following sequencing constraints: (1) An open(f) must be executed before every write(t), (2) An open(f) must be executed before every close(), (3) A write(f) may not be executed after a close() unless there is an open(f) in between, (4) A write(t) should be executed before every close().



Answer the following questions with reference to the sequencing con- straints and the graph a

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method that uses these constraints.	
6) Which of the following is true with reference to the graph satisfying the sequencing constraints?	1 point
 All the sequencing constraints are satisfied. Constraints (1) and (2) are satisfied but (3) and (4) are not. Constraints (1), (2) and (3) are satisfied but (4) is not. All constraints are violated. 	
Yes, the answer is correct. Score: 1 Accepted Answers: Constraints (1), (2) and (3) are satisfied but (4) is not.	
7) State true or false: The path (1,4,5,7) satisfies constraint (4).	1 point
○ True.◎ False.	
Yes, the answer is correct. Score: 1 Accepted Answers: False.	
8) State true or false: The path (1,2,3,7) satisfies all the constraints.	1 point
True.False.	
Yes, the answer is correct. Score: 1 Accepted Answers: True.	
9) State yes or no: Does the path (1,4,6,5,7) violate any of the constraints?	0 points
○ Yes. ● No.	
Yes, the answer is correct. Score: 0 Accepted Answers: No.	
10) State true or false: The path (1,4,6,4,6,5,7) satisfies all the constraints.	0 points
♥ Yes.♦ No.	
Yes, the answer is correct. Score: 0	
Accepted Answers: Yes.	