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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

- Lecture 10 Assignment 2:
 Structural
 Coverage
 Criteria (unit?
 unit=30&lesson=31)
- Lecture 11 -Data FlowGraphs (unit?unit=30&lesson=32)
- Lecture 12 Algorithms:
 Data Flow
 Graph
 Coverage
 Criteria (unit?
 unit=30&lesson=33)

Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2021-08-25, 23:59 IST.

Assignment submitted on 2021-08-25, 16:21 IST

- 1) Consider a variable num of type float, i.e., it is a floating point number. Suppose a **1 point** particular method has a statement if (log(num)) >= 0.72, will it be considered a definition of num or a use of num?
 - The statement is a definition of num.
 - The statement is a use of num.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The statement is a use of num.

- 2) Consider a variable count of type int. Suppose there is a method that has a **1 point** statement of the type count++;, which of the following statements are correct regarding the data flow definition of count?
 - The statement is a definition of count.
 - The statement is a use of count.
 - The statement is both a definition and use of count.
 - None of the above holds true.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The statement is both a definition and use of count.

C Lecture 13 -	3) State true or false: For every variable in a particular program, every definition of a	1 point		
Graph	variable will always reach a use.			
Coverage				
Criteria:	True.			
Applied to Test Code (unit?	False.			
unit=30&lesson=34)	Yes, the answer is correct. Score: 1			
Lecture 14 -	Accepted Answers:			
Testing Source	False.			
Code:	4) Which of the following best defines a du-path for a variable x ?	1 point		
Classical	4) without of the following best defines a du-path for a variable x :	r point		
Coverage Criteria (unit?				
unit=30&lesson=35)	A du-path is a simple path from a definition of x to a use of x without any further definition	efinitions		
,	of x in-between.			
○ Week 3				
Feedback	A du noth is a noth from a definition of m to a use of m without any further definition	o of m in		
Form:	A du-path is a path from a definition of x to a use of x without any further definition between.	5 OI & III-		
Software Testing (unit?	petween.			
unit=30&lesson=37)				
	A du-path is a simple path from a definition of x to a use of x without any futher use	es of x		
Practice: Week	in-between.			
3: Assignment				
3 (Non	A du-path is a path from a definition of x to a use of x without any further uses of x	: in-		
Graded) (assessment?	between.			
name=112)	Yes, the answer is correct.			
·	Score: 1			
Quiz: Week 3:	Accepted Answers:			
Assignment 3	A du-path is a simple path from a definition of x to a use of x without any further defi	nitions of		
(assessment? name=124)	x in-between.			
	5) State yes or no: We group du-paths with respect to a variable by its uses.	1 point		
Week 4	3) State yes of no. We group du-patris with respect to a variable by its uses.	r point		
	○ Yes.			
Week 5	No.			
	Yes, the answer is correct.			
Week 6	Score: 1			
	Accepted Answers:			
Week 7	No.			
	6) Which of the following properties should a side-trip taken to cover a du- path	1 point		
Week 8	satisfy?			
Mark O				
Week 9	Side trips should be use clear.			
Week 10	Side trips should be def clear.			
	Side trips should be def and use clear.			
Week 11	Side trips need not satisfy any condition.			
Wook 12	Yes, the answer is correct.			
Week 12	Score: 1			
DOWNII OAD	Accepted Answers: Side trips should be def clear.			
DOWNLOAD	Sido tripo siriodid de dei diedi.			
VIDEOS	7) Is it true that prime paths coverage (a structural coverage criterion that we saw	1 point		
Tavé Tuanaaninés	earlier) subsumes all-du-paths-coverage?			
Text Transcripts				
	True.			

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○ False.
Yes, the answer is correct. Score: 1 Accepted Answers: True.
8) Which of the following statements are true when it comes to comparing traditional 1 point source code coverage criteria with graph based coverage criteria?
Node and statement coverage are the same, edge and branch coverage are the same.Edge and decision coverage are the same.
Yes, the answer is correct. Score: 1 Accepted Answers: Node and statement coverage are the same, edge and branch coverage are the same.
9) Which of the following defines a linearly independent path of eecution in a control 1 point flow graph?
A path in which there are no branches.
A path which does not contain other paths within it.
A path that represents structural complexity of a program.
A path within a connected component.
Yes, the answer is correct. Score: 1 Accepted Answers: A path which does not contain other paths within it.
10) State true or false: An algorithm for enumerating prime paths works by enumerating <i>1 point</i> all simple paths in order of increasing length and stops when there are no more such paths.
True.
○ False.
Yes, the answer is correct. Score: 1 Accepted Answers: True.