

Answer Submitted.

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<https://swayam.gov.in>https://swayam.gov.in/nc_details/NPTEL

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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 ()

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

Week 3 : Assignment 3 (Non Graded)

Assignment not submitted

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

The following description is that of a CFG whose nodes are labelled with statements involving five different variables, namely, x , y , w , z and m . The CFG corresponds to a program fragment that has two decision statements. Answer the following questions with respect to this CFG and the definitions and uses of the variables, as per the statements.



Coverage
Criteria (unit?
unit=30&lesson=33)

● Lecture 13 -
Graph
Coverage
Criteria:
Applied to Test
Code (unit?
unit=30&lesson=34)

● Lecture 14 -
Testing Source
Code:
Classical
Coverage
Criteria (unit?
unit=30&lesson=35)

○ Practice:
Week 3 :
Assignment 3
(Non Graded)
(assessment?
name=123)

● Quiz: Week 3 :
Assignment 3
(assessment?
name=138)

○ Week 3
Feedback
Form:
Software
Testing (unit?
unit=30&lesson=126)

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

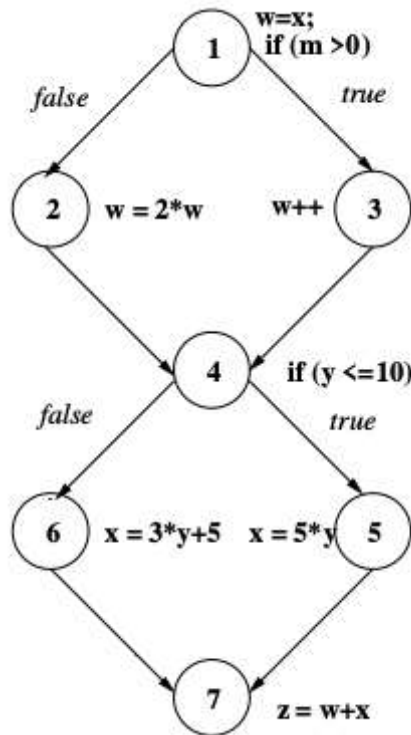
Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()



1) Which of the following is a list of nodes having defs for variable w ?

1 point



Nodes 1, 2, 3 have defs for w .



Nodes 2 and 3 have defs for w .

Yes, the answer is correct.

Score: 1

Accepted Answers:

Nodes 1, 2, 3 have defs for w .

2) Which of the following is a list of nodes having uses for variable w ?

1 point



Nodes 2, 3, and 7 have uses for w .



Nodes 2 and 3 have uses for w .

Yes, the answer is correct.

Score: 1

Accepted Answers:

Nodes 2, 3, and 7 have uses for w .

3) State true or false: Nodes 4, 5 and 6 have uses for variable x .

1 point

☐ True

☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

4)



1 point

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Materials ()**

**DOWNLOAD
VIDEOS ()**

**Text
Transcripts ()**

**Live
sessions ()**

Books ()

State yes or no: Are there any du-paths with respect to variable w from node 1 to node 7?

☒ Yes

☐ No

No, the answer is incorrect.

Score: 0

Accepted Answers:

No

5) Does the statement at node 7 correspond to a definition or a use for the variable z ? **1 point**

☒

It corresponds to a definition of z .

☐

It corresponds to a use of z .

Yes, the answer is correct.

Score: 1

Accepted Answers:

It corresponds to a definition of z .

6) Which of the following is a list of du-paths for the variable w ? **1 point**

☐ Paths [2, 4, 5, 7], [2, 4, 6, 7], [3, 4, 5, 7] and [3, 4, 6, 7].

☒ Paths [1, 2], [1, 3], [2, 4, 5, 7], [2, 4, 6, 7], [3, 4, 5, 7] and [3, 4, 6, 7].

Yes, the answer is correct.

Score: 1

Accepted Answers:

Paths [1, 2], [1, 3], [2, 4, 5, 7], [2, 4, 6, 7], [3, 4, 5, 7] and [3, 4, 6, 7].

7) Which of the following is a list of du-paths for the variable x ? **1 point**

☒ Paths [5, 7] and [6, 7].

☐ Paths [5, 7], [6, 7] and [7, 7].

Yes, the answer is correct.

Score: 1

Accepted Answers:

Paths [5, 7] and [6, 7].

Check Answers and Submit

Your score is: 6/7

