

Answer Submitted.

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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 ()

☒ Syntax-Based
Testing (unit?
unit=66&lesson=67)

Week 8 : Assignment 8 (Non Graded)

Your last recorded submission was on 2022-09-28, 19:54 IST

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

1) State true or false: Regular expressions and context free grammars are used to determine how characters form tokens and tokens form words in the syntax of a programming language. **1 point**

☒ True.☐ False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

True.

2) In the list of mutation operators for source code, the Boolean constants *True* and *False* can be used to replace which of the following operators? **1 point**

☐ They can replace logical operators only.☐ They can replace relational operators only.☒ They can replace conditional operators only.☐ They can replace both logical and relational operators.

No, the answer is incorrect.

Score: 0

Accepted Answers:

They can replace both logical and relational operators.

3) When is a mutant said to be a trivial mutant?



1 point

● Mutation Testing (unit? unit=66&lesson=68)

● Mutation Testing for Programs (unit? unit=66&lesson=69)

● Mutation Testing: Mutation Operators for Source Code (unit? unit=66&lesson=70)

● Mutation Testing Vs. Graphs and Logic Based Testing (unit? unit=66&lesson=71)

● Practice: Week 8 : Assignment 8 (Non Graded) (assessment? name=118)

● Quiz: Week 8 : Assignment 8 (assessment? name=143)

○ Week 8 Feedback Form: Software Testing (unit? unit=66&lesson=131)

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Learning Materials ()

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- ☐ A mutant is trivial if it is functionally equivalent to its ground string.
- ☒ A mutant is trivial if it can be killed by almost any test case.
- ☐ A mutant is trivial if it is invalid.
- ☐ A mutant is trivial if all logical and relational operators are replaced by the constant *True*.

Yes, the answer is correct.

Score: 1

Accepted Answers:

A mutant is trivial if it can be killed by almost any test case.

4) State true or false: Strongly killing a mutant and weakly killing a mutant are the same in mutation testing applied to test a method. **1 point**

- ☐ True.
- ☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

5) State true or false: Mutation testing subsumes combinatorial logic coverage criterion. **1 point**

- ☒ True.
- ☐ False.

No, the answer is incorrect.

Score: 0

Accepted Answers:

False.

Check Answers and Submit

Your score is: 3/5



Text Transcripts ()

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