## Software Testing Quiz

jl11703@nyu.edu Switch account

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\* Required

Which of the following are advantages of using a code linter over manual \* 6 points checking of code?

- Abates the risk of personal conflict within a team
- Checks for correct syntax faster than a human
- Checks for good code style faster than a human
- Identifies the same issues every time it is run on the same code

What is the ideal ratio of test code to production code? \*

6 points

- 1-to-1
- 2-to-1
- 5-to-1
- There is no ratio that is ideal for all projects

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Unit testing often requires that the production code be refactored to be more easily testable.	* 6 points
True	
○ False	
What is the relationship between load testing and stress testing of a system?	* 4 points
Load testing tests the system at levels of resource usage for which it was design  Stress testing tests it at levels of resource usage beyond which it was design	•
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Imagine the following scenario: a software engineer earns \$100/hr. A given simple project requires a set of 100 unit tests. Each unit test takes an average of 3 minutes for the engineer to write. If automated, the unit tests take a total of 1 minute to run. If the tests are executed manually, the unit tests take a total of 10 minutes to run. How many times must the set of unit tests be run in order for the time savings they offer throughout the lifetime of the project to compensate for the up-front cost of their creation?	* 6 points
1 time	
11 times	

What does the term unit in "unit testing" refer to? (pick the best definition) \* 6 points

33 times

44 times

122 times

The smallest testable piece of code in a system
A function/method
O An object
O A class
Can integration tests that do not require a human be automated? * 6 points
Yes
O No
Why should unit tests follow the same standards of good code design for * 6 points your test code?
Because, if properly testing code, there will be more unit tests than there are units of production code, so it is just as or more important that the testing code be of high quality.
Because, if properly testing code, unit tests become a form of documentation of the requirements of the system being built, so they should be highly readable, commented, and maintainable.
Because, if properly testing code, each test will be run many times throughout the lifetime of the development process, while developers may come and go, so it should be highly readable, commented, and maintainable.
Should refactoring a function change the result of an existing unit test? * 6 points
O Yes
No
User Acceptance Testing is a form of * 6 points

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•	Integration testing
0	Unit testing
0	System testing
Wh	at is the main difference between unit testing and integration testing? * 6 poi
•	Unit testing tests each unit in isolation, while integration testing tests them all connected together as they would be in production.
0	Integration testing tests each unit in isolation, while unit testing tests them all connected together as they would be in production.
0	Unit testing and integration testing are basically the same thing, except that the syntax used in integration testing is based more on natural language than that used in unit testing.
Ηον	
	v does Test-Driven Development (TDD) relate to a project's 'code * 6 poi erage'?  Code coverage will vary tremendously from one project to another if TDD is followed
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Can User Acceptance Testing be automated? *	6 points	
O Yes		
● No		
What is 'static analysis' of code? *	6 points	
An analysis of the codebase that requires the code be executed.		
An analysis of the codebase that does not require the code to be executed.		
An analysis of the behavior of the class definitions in the codebase without instantiating any objects.		
An analysis of the behavior of the objects in the codebase, irrespective of the classes they are instantiated from.		
What is 'regression testing'? *	6 points	
O Benchmark testing that compares the performance a new version of a system to an older version of the same system.		
Re-running old unit tests every time new unit tests for new production code are run.		
Testing that the user interface is suitable and accessible to people with visual and other impairments.		
Testing the server load and stress handling.		

Which static analysis tools have we discussed in class? *	6 points
Software integration testing tools	
Software linting tools such as PyLint, ESLint, etc.	
Software load testing tools	
Software stress testing tools	
Software unit testing tools, such as JUnit, PyUnit, mocha, etc	

A copy of your responses will be emailed to jl11703@nyu.edu.

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