### Final 1 Sample 2020

**Due** Dec 16 at 11:59pm **Time Limit** 25 Minutes Points 17

**Questions** 17

### Instructions

The questions on this quiz are based mainly on:

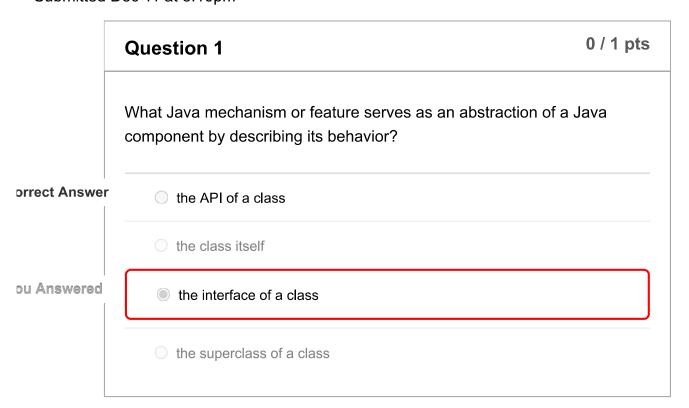
- Module 7 (especially chapter 9 and chapter 11 slides)
- Module 10 (especially the slides)
- Module 11 (especially the slides and recordings)

There may also be a couple questions from the first half of the course.

### **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	12 minutes	13 out of 17

### Submitted Dec 11 at 8:10pm



# What should software developers strive for regarding coupling and cohesion of components? high coupling and high cohesion high coupling and low cohesion low coupling and high cohesion low coupling and low cohesion

## What is one of the most important things to look for when refactoring? Faulty implementations Irrelevant comments Poor performance Redundant code

Question 4

1/1 pts

Which of the following is not one of the four principles used to guide component-level design?

	O Dependency Inversion Principle
	Interface Segregation Principle
	Open-Closed Principle
Correct!	Parsimonious Complexity Principle

# Consider a "get" method in a collection that returns the object at the specified index and throws an exception if the index is out of bounds. According to strict design-by-contract, who is responsible for checking that the index is in bounds?' Client caller Class implementer Both the client and the implementer Neither the client nor the implementer

Question 6	1 / 1 pts
Occurs when a higher layer in a system can access a lower lay the other way around	er, but not
Common coupling	
Content coupling	

	Functional cohesion	
Correct!	Layer cohesion	
	Question 7	pts
	With thorough testing it is possible to remove all defects from a program prior to delivery to the customer.	m
	○ True	
Correct!	False	
	Question 8 1/1	pts
	In software quality assurance work there is no difference between software verification and software validation.	
	○ True	
Correct!	False	
	Question 9 1/1	pts
	Which of the following is NOT a kind of system testing?	
Correct!	Acceptance testing	

Beta testing		
<ul> <li>Recovery testing</li> </ul>		
<ul><li>Stress testing</li></ul>		

### Question 10 Stress testing examines the pressures placed on the user during system use in extreme environments such as temperature and humidity. True False

## In white-box testing, a reasonable goal is to ensure that each input is executed at least once each method is executed at least once each path is executed at least once each statement and each branch is executed at least once

### Question 12 1 / 1 pts

Correct!

	If there were some way to make exhaustive testing practical, we could be certain that our code was correct.
	○ True
Correct!	False

# What is the cyclomatic complexity of the following code? if (condition) { x++; } else { x--; } 0 1 2

### The cyclomatic complexity metric provides the designer with information regarding the number of cycles in the program errors in the program

Correct!

independent logic paths in the program

statements in the program

Question 15

A Java API is a good example of an informal specification.

True

Pract Answer

True

False

One challenge to developing a verifying compiler is that developers who use it will have to write a lot more test cases.

True

False

Which of the following is NOT a principle of agile development?

Build projects around motivated individuals

Build software that exhibits effective modularity				
Busines project	s people and developers must work together daily throughout the			
O Weld	come changing requirements, even late in development			