Congratulations! You passed!
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1.	Which of these terms are used to describe coupling? Choose the 3 correct answers.	1 / 1 point
	ease	
	Correct! Ease is how easily a component can be switched for a different one.	
	frequency exposed	
	degree	
	 Correct Correct! Degree is how much two components are connected 	
	flexibility	
	 Correct Correct! Flexibility is how easily a component can be used for another purpose. 	
2	Which is the most desirable?	1 / 1 maint
2.	Which is the most desirable?	1 / 1 point
	high cohesion, loose coupling	
	high cohesion, tight coupling	
	low cohesion, tight coupling low cohesion, loose coupling	
	Correct!	
3.	What are some keywords you might use for information hiding in Java? Select the three	1 / 1 point
	correct answers.	
	protected	
	✓ Correct	

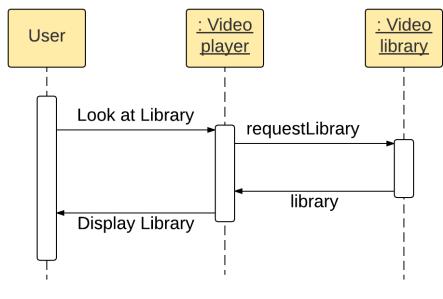
	private	
	Correct Correct! This will hide variables or methods from all other classes.	
	abstract [none]	
	Correct Correct! Having no keyword will make the variable or method default to only being accessible by the class and its subclasses.	
4.	What are the best ways to promote Conceptual Integrity in your software? Choose the two correct answers.	1 / 1 point
	Delegating development of different components to different teams	
	Good commenting	
	Regular code reviews	
	Correct Correct! Regular code reviews will get everyone to think together about the best conventions to use in your software, and allow the team to correct missteps.	
	Planning the architecture of the system	
	 Correct Correct! Planning ahead will allow your team to discuss issues relating to conceptual integrity ahead of time. 	
5.	Information Hiding is closely related to one of the core design principles of object-oriented design. Which one?	1 / 1 point
	abstraction	
	encapsulation	
	generalization	
	decomposition	
	 Correct Correct! Information hiding involves hiding away those details that are not important to outside classes. This is closely related to encapsulation. 	

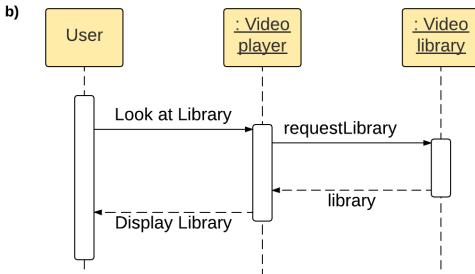
Correct! This will hide information from all classes except those in the same package

or those that extend.

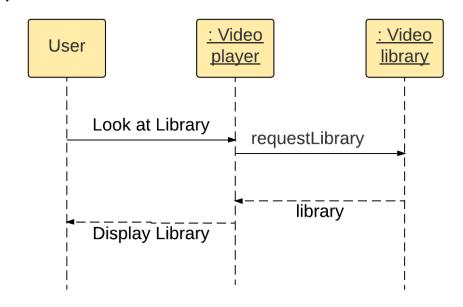
6.	Which of	these sear	uence diagi	rams is	correct?

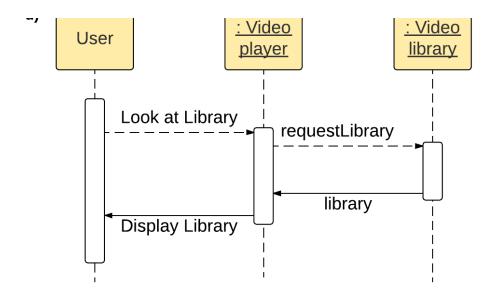






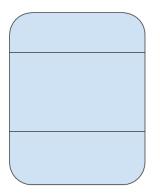
c)





- (a)
- (b)
- (c)
- () d)
 - Correct! This is a complete sequence diagram.
- 7. What are elements of a state in a State diagram (see diagram)? Choose the three correct answers.

1 / 1 point



	responsibilities
	events
~	state name
©	Correct! The name of the state is at the top section of a state.
~	state variables
©	Correct Correct! State variables are manipulated depending on the state.
~	activities
Q	Correct Correct! The activities that are specific to this state are listed, sometimes including those that occur when entering or exiting the state.

1 / 1 point

When is Model Checking conducted?

After development During planning

During development

	After deployment	
	Correct Correct! Model Checking is done after the bulk of the development is finished.	
9.	What are the phases of Model Checking? Choose the 3 correct answers.	1 / 1 point
	Counterexample Phase Analysis Phase	·
	Correct Correct! The counterexamples that were identified in the running phase are analysed to find the causes of the issues and the solution to each. Running Phase	
	Correct Correct! The model checking software identifies counterexamples if there are any.	
	Modeling Phase. Correct	
	Correct! First the team creates a model for testing the software in all of its different states. Model Simulation	
10.	During model checking, what is the name for a violation of the desired properties of the	1 / 1 point
	model? Error	
	Model Gap Counterexample	
	Redevelopment Orrect Correct! This is called a counterexample.	

11.	When two processes cannot run because they are waiting on the same resource, it's called	1 / 1 point
	Mutual lock Transition lock Deadlock State lock	
	Correct Correct! This is called a deadlock.	
12.	Choose the three examples of inheritance used poorly:	1 / 1 point
	A method in the superclass is overwritten with different behaviour by a subclass.	
	 Correct Correct! This violates Liskov's Substitution Principle, which states that a superclass should be able to be substituted by a subclass without error. 	
	Inheritance is used to share behaviour without specializing	
	 Correct Correct! If inheritance is merely used to share behaviour and not much more, consider skipping it altogether and just using the superclass. 	
	A subclass inherits methods from the superclass and adds extra, new, unrelated functionality	
	Correct Correct! If your subclass inherits some behaviour and adds unrelated functionality, it is not very coherent. You should consider decomposing these responsibilities into different interfaces.	
	The subclasses inherit methods from the superclass and have their own specific, related methods.	