## **Architecture2 Quiz**

<b>Due</b> Oct 17 at 11:59pm	Points 25	Questions 25	Time Limit 60 Minutes	

### Instructions

This quiz assesses your understanding of software architecture documentation. The time to complete this quiz is 60 minutes.

By taking this quiz, you are also taking the pledge of honor:

"I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination."

### **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	56 minutes	23.42 out of 25

Score for this quiz: 23.42 out of 25

Submitted Oct 13 at 2:44pm This attempt took 56 minutes.

	Question 1	1 / 1 pts
	I pledge on my honor that I have not given or received any unauthor assistance on this assignment/examination.	rized
Correct!	True	
	False	

Question 2 1 / 1 pts

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	Which of the following elements need to be documented in software
	architecture specification? (check all that apply)
Correct!	✓ Decomposition into architectural elements
Correct!	✓ Elements responsibilities
Correct!	✓ Interfaces
Correct!	
Correct!	✓ Relationships
	Algorithms
Correct!	✓ States and Transitions

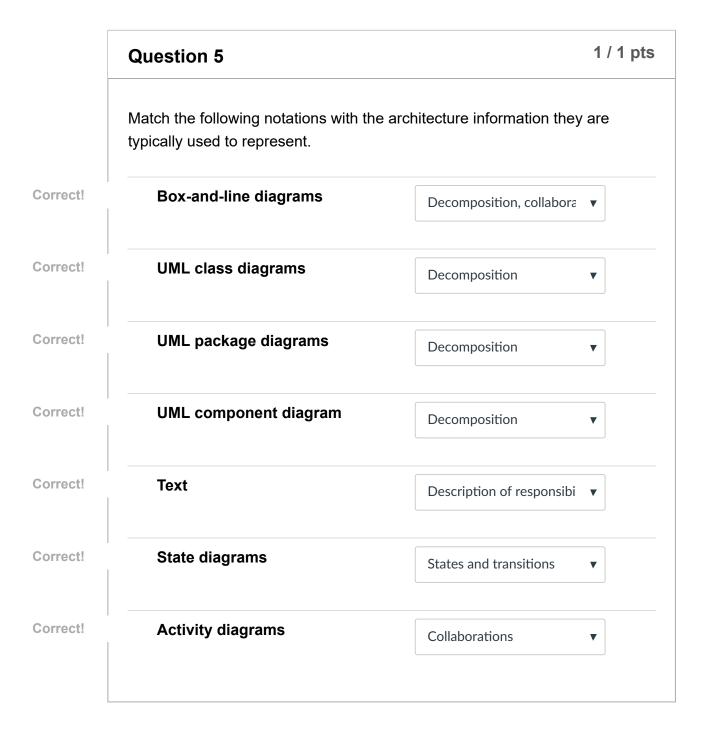
Question 3 0.75 / 1 pts	
What relations between architecture elements are documented in software architecture specification? (check all that apply)	
Dependencies	
✓ Uses	
Decomposition	
Generalization	
	What relations between architecture elements are documented in software architecture specification? (check all that apply)  Dependencies  Uses  Decomposition

Question 4	1 / 1 pts
An interface is a boundary across which entities communicate	

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Correct!

False



**Question 6** 

1 / 1 pts

When using a "box and line" notation for architecture representation, what must be avoided? (check all that apply)

Correct!

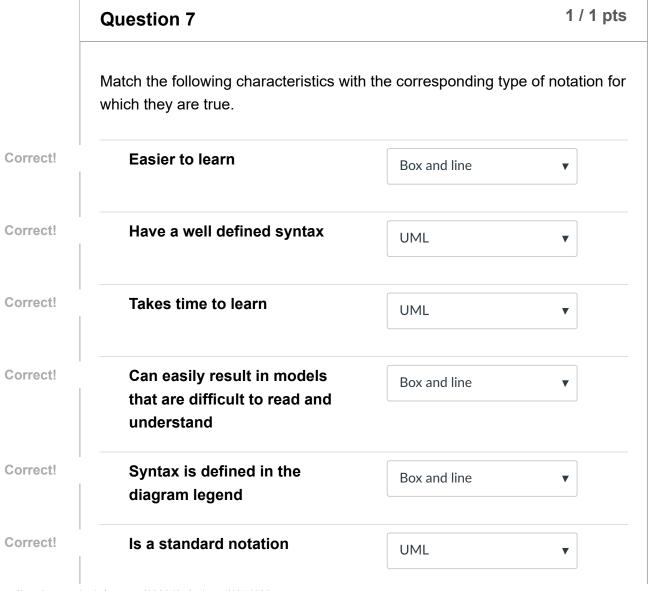
Using the same symbol for different things

Using the same symbol in different ways in different diagrams

Using grammatical conventions to name elements

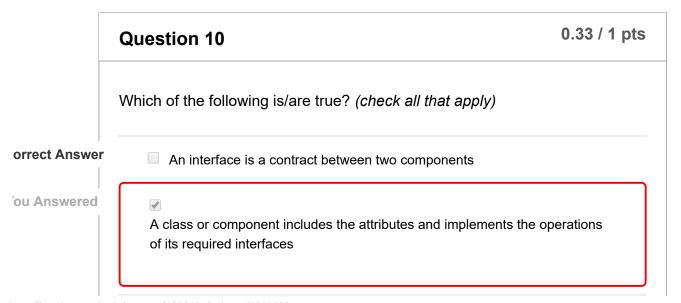
Mixing static and dynamic elements

Including a legend



	Question 8	1 / 1 pts
	Which model requires the most rigorous notation?	
Correct!	A model used to generate a system implementation	
	A model used for documenting an existing system	
	A model used for discussion about an existing or proposed system	

## Responsibilities of architectural elements identified in models/diagrams must be documented True False



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Correct!	A class or component realizes its provided interfaces
Correct!	A class or component needs its required interfaces
	Question 11 1 / 1 pts
	What must documentation of an architectural component contain? (check all that apply)
Correct!	✓ Responsibilities
Correct!	Provided and required Interfaces
	Implementation details of the component
	Question 12 1 / 1 pts
	An interface can have one or more operations
Correct!	True
	False
	Question 13 0.67 / 1 pts
	What does documentation of an interface contain? (check all that apply)
orrect Answei	Name of each operation

Question 14  Question 14  O.67 / 1 pts  What is a valid UML representation of a provided interface? (check all that apply)  Orrect!  A "ball"/"lollipop" symbol associated with a component  Answered  A "socket" symbol associated with a component  An < <interface>&gt; stereotyped class  Orrect!  Its operations and attributes are represented inside the class that realizes that interface  Question 15  1/1 pts  In a component diagram, how do we know which provided interface pairs up with which required interface?</interface>			
Question 14  Question 14  O.67 / 1 pts  What is a valid UML representation of a provided interface? (check all that apply)  Orrect!  A "ball"/"lollipop" symbol associated with a component  Answered  A "socket" symbol associated with a component  An < <interface>&gt; stereotyped class  Its operations and attributes are represented inside the class that realizes that interface  Question 15  1 / 1 pts  In a component diagram, how do we know which provided interface pairs up with which required interface?</interface>	correct!	Signature of each operation	
What is a valid UML representation of a provided interface? (check all that apply)  Orrect!  A "ball"/"lollipop" symbol associated with a component  Answered  A "socket" symbol associated with a component  An < <interface>&gt; stereotyped class  Its operations and attributes are represented inside the class that realizes that interface  Question 15  1/1 pts  In a component diagram, how do we know which provided interface pairs up with which required interface?</interface>	orrect!	Pre and post conditions of each operation	
What is a valid UML representation of a provided interface? (check all that apply)  Orrect!  A "ball"/"lollipop" symbol associated with a component  Answered  A "socket" symbol associated with a component  An < <interface>&gt; stereotyped class  Orrect!  Its operations and attributes are represented inside the class that realizes that interface  Question 15  In a component diagram, how do we know which provided interface pairs up with which required interface?</interface>			
apply)  Orrect!  ✓ A "ball"/"lollipop" symbol associated with a component  ✓ A "socket" symbol associated with a component  ✓ An < <interface>&gt; stereotyped class  Orrect!  ✓ Lits operations and attributes are represented inside the class that realizes that interface   Question 15  In a component diagram, how do we know which provided interface pairs up with which required interface?  ✓ By using the same interface name</interface>		Question 14 0.	67 / 1 pts
Answered  A "socket" symbol associated with a component  Answered  A "socket" symbol associated with a component  An < <interface>&gt; stereotyped class  Its operations and attributes are represented inside the class that realizes that interface  Question 15  In a component diagram, how do we know which provided interface pairs up with which required interface?  By using the same interface name</interface>			all that
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In a component diagram, how do we know which provided interface pairs up with which required interface?  By using the same interface name	Correct!	Its operations and attributes are represented inside the class that realize	es that
with which required interface?  By using the same interface name		Question 15	1 / 1 pts
by using the same interface name	_	· · · · · · · · · · · · · · · · · · ·	pairs up
By using an assembly connector that wires the interfaces together	Correct!	By using the same interface name	
	correct!	By using an assembly connector that wires the interfaces together	

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**Question 16** 

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1 / 1 pts

 Question 17
 1/1 pts

 What are the benefits of using views for documenting software architecture? (check all that apply)

 Correct!
 ✓ Separation of concerns

 Correct!
 ✓ Communication with stakeholder groups

 Correct!
 ✓ Managing complexity

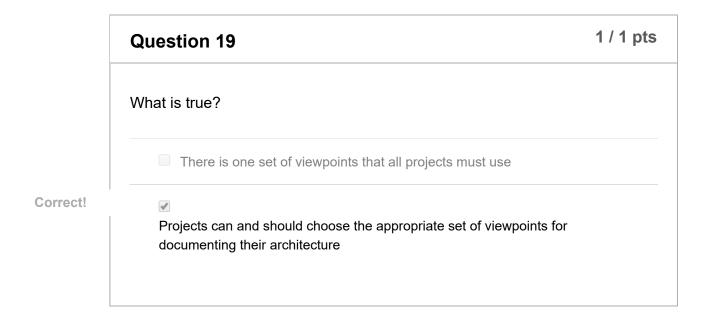
Question 18
1 / 1 pts

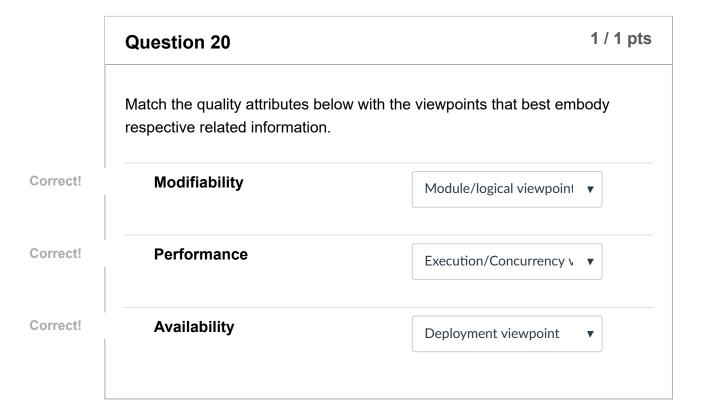
Which of the following is/are true? (check all that apply)
Correct!
A viewpoint is to a view what a programming language grammar is to a program
Correct!
A view is an instance of a viewpoint
A viewpoint is an instance of a view

Correct!



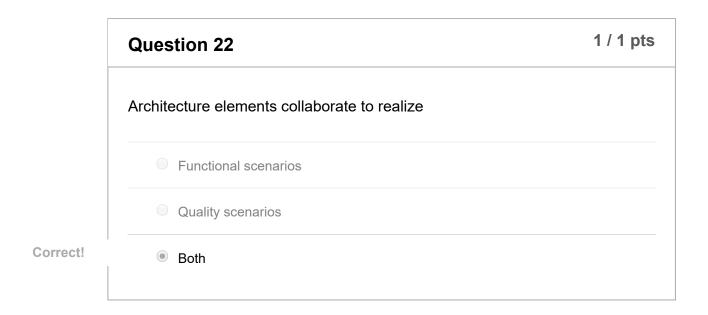
An architecture is described by one or more views that together provide a coherent description of the system's architecture

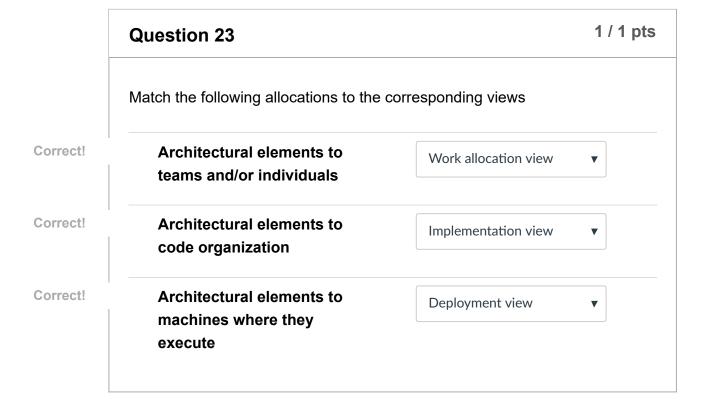




1 / 1 pts **Question 21** 

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	Architecture specification represents only static structure, but not behavior	
	True	
Correct!	False	





# Question 24 1 / 1 pts What is true about consistency between architectural views (check all that apply) Can be easily established and maintained Established and maintained Is important for the architecture to be understood Correct! Is necessary for achieving design goals

	Question 25 1 / 1 pts
	Why is it important to document design decisions and rationale? <i>(check all that apply</i>
Correct!	So the users of architecture will understand it
Correct!	✓ Developers will follow it in implementation
Correct!	The architecture author(s) will recall the rationale for their own solution
Correct!	✓ Obsolete decisions can be removed or changed
Correct!	Patterns are not violated in implementation and maintenance

Quiz Score: 23.42 out of 25