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Congratulations! You passed!

Grade

Latest Submission

received 100%

intuitiveness

complexity

Grade 100%

To pass 75% or

higher

Retake the assignment in **3h 23m**

Go to next item

1.	Identify the attribute refinements of a system's performance. Select the 2 correct answers.	1/1 point
	maintenance downtime	
	☐ boot time	
	throughput	
	 Correct Correct! Throughput is the amount of output produced over a period of time. 	
	✓ latency	
	Correct! Latency is the time it takes to produce an output after receiving an input.	
	simplicity	
2.	Guidelines such as "the system should be easy and intuitive to learn", "the system should minimize user errors," and "the system should make it easy for users to complete tasks" fall under which category of quality attribute?	1/1 point

- usability
- astonishment
 - **⊘** Correct

Correct! The usability is how easy it is for an end user to interact with the system.

3. Calum is leading a team of developers and would like to promote conceptual integrity. Which of these is **NOT** a way he could promote conceptual integrity:

1/1 point

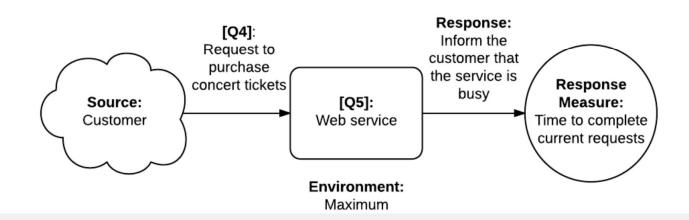
- Split the development team into subteams for each component of the architecture
- Adopt good documentation practices
- Establish conventions, such as structural rules or naming conventions
- O Do regular code reviews with the development team
- \bigcirc

Correct

Correct! Although any large project will have subteams, this is a factor that tends to work against conceptual integrity.

4. Have a look at this diagram of a quality attribute scenario:

1/1 point



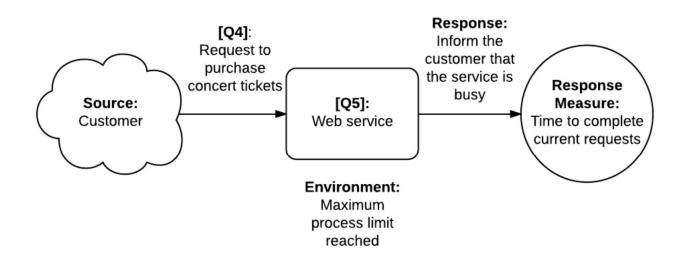
process limit reached

- **[Q4]** is a condition that will cause the system to respond. What is this called?
- O perturbation
- O request
- stimulus
- O error
- ✓ Correct

Correct! This is a stimulus.

5. Let's look at the same diagram of a quality attribute scenario:

1/1 point



54 Q412 50 11111			
	Oprocess		
	Component		
	Context		
	artifact		
	 Correct Correct! Don't confuse this artifact with the artifacts we talked about in deployment diagrams. 		
	6. Which of these could be considered under the environment in a quality attribute scenario?	1/1 point	
	send error to external system		
	recovering from error		
	O unrecognized system request		
	internal subsystems		
	Correct! Recovering from an error is a possible environment in which the software can receive stimuli.		
	7. Who are the three main groups of people involved in the architecture tradeoff analysis method?	1/1 point	
	evaluation team, project decision makers, architecture stakeholders		
	Clients, designers, stakeholders		Activate Window Go to Settings to active
	opeers, outsiders, designers		So to Settings to active
	ovaluation team, outsiders, project team		



Correct

Correct! Remember that each of these groups also has subgroups. For example, the evaluation team could include those responsible for architecture design, as well as completely independent evaluators.

8. Leon is analyzing the architecture and notices that under conditions of high numbers of users signing on at the same time, there is a potential that one of the architecturally significant requirements (ASRs) will not be met. What is this called?

1/1 point

- risk scenario
- non-risk scenario
- utility shortfall
- tradeoff



Correct

Correct! This is a risk scenario and should be evaluated.

9. Maddie's software team is split into two subteams working on two different components that work together. These teams share one large room and are in constant contact. According to Conway's Law, what could happen if Maddie does not physically separate the two subteams?

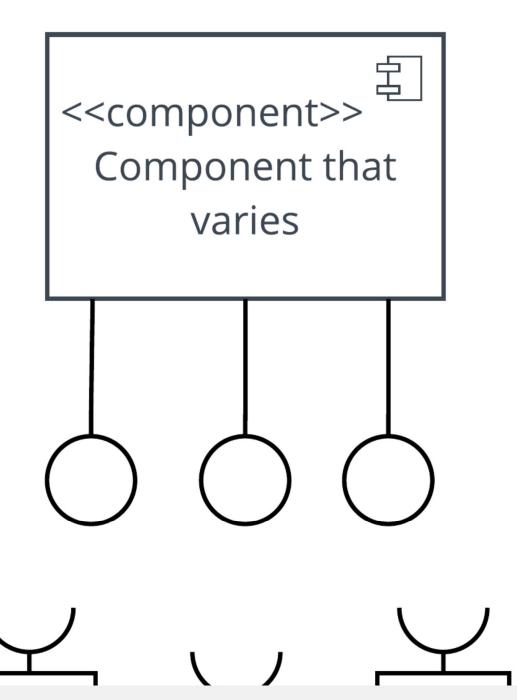
1/1 point

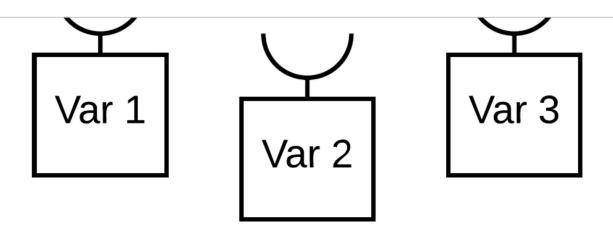
- The component interfaces will not be reusable
- They will not leave sufficient comments, thinking that the other team already knows the relevant details
- The components they produce will be very tightly coupled
- O Their components will repeat code unnecessarily



Correct

Correct! Conway's Law says that software tends to mirror real world organization, so a team in constant contact will produce more tightly coupled software.





- adaptation
- O replacement
- Composition
- extension
 - **⊘** Correct

Correct! Adaptations change certain parts of the component.

- **11.** Which of these is **NOT** a typical advantage of developing a product line?
 - onsistency over the product line
 - greatly reduced up-front development
 - oreducing time-to-market of later products
 - overall cost reduction



Correct! This is NOT an advantage of a product line, which typically needs more up-front development.

1/1 point

Correct! Adaptations change certain parts of the component.	
11. Which of these is NOT a typical advantage of developing a product line?	1 / 1 point
onsistency over the product line	
greatly reduced up-front development	
reducing time-to-market of later products	
O overall cost reduction	
Correct! This is NOT an advantage of a product line, which typically needs more up-front development.	
12. Andy is planning the development of a product line of eBook readers and he has to categorize the components that will be handled by each team. There is one product in the line which has a backlight for reading during the night. In the development process, where would you categorize this feature?	•
O Variation	
One-Off	
○ Commonality	
Product-Specific	
Correct Correct! Product-specific components are developed by the application engineering team, because they only apply to one product.	Activate Windov Go to Settings to activ