Congratulations! You passed!

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1. Which of these are desirable characteristics of a software design? **Choose the three correct answers.**

1/1 point

1/1 point

- reusability
 - ✓ Correct

Correct! Software designers hate to repeat themselves. If code is reusable, then there is less overall coding to do.

- flexible
 - ✓ Correct

Correct! We strive to make code flexible, which is to say that it can be adapted for new requirements

- maintainability
- **⊘** Correct

Correct! Code should be maintainable, which means the code can be modified or extended easily.

tight coupling

Identify two outcomes of the design process. Choose the two correct answers.

conceptual design

✓ Correct

2.

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	Correct! Conceptual design covers the early part of design, where the problem is translated into a high-level solution.	
	technical design	
	Correct! Technical design gets even closer to the actual implementation.	
	design plan	
	code implementation	
3.	You are writing out a CRC card for a bank machine component. Under which section should you put "Track Cash Remaining." 1/1 point	
	○ Class	
	Responsibility	
	0	
	Risk	
	0	Activate Window Go to Settings to activa
	Collaborator	

	Correct Correct! One of the responsibilities of this bank machine is to track how much money it has left.		
4.		1/1 point	
	Which two of these are likely to be a part of conceptual design?		
	✓ Mockups		
	Correct! Mockups help the designers decide on relationships between components.		
	✓ CRC Cards		
	Correct! CRC cards are used to get a sense of the classes, components, etc. that your design may have.		
	Abstract data types		
	Methods		
5.	When during the design process are you likely to produce CRC cards the most?	1/1 point	
	C technical design		
	O		Activate Window
	customer meetings		Go to Settings to active
	\cap		

after releasing the software conceptual design Correct Correct! CRC cards are most often created and used in conceptual design, especially when the team is almost ready to transition into technical design. 6. Which of the following are examples of non-functional requirements? Choose the three correct answers. 1/1 point purpose performance Correct Correct. The speed and responsiveness of a system is often as important as what its actual function is! Remember that the function is the system's reason for being. security (v) Correct Correct. The security of a system and how it protects data may be as important as its function. Remember that the function is the system's reason for being. availability Correct

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1/1 point

Correct! That the functions of the system are available for use is as important as the functions themselves.

Select the three categories of objects generally present in object-oriented software.

Remember that the function is the system's reason for being.

7.

✓ control	
Correct! Control objects manage the interactions of other objects.	
entity	
Correct! Entity objects are the backbone of the system, and often correspond to real life objects.	
tool	
boundary	
Correct! Boundary objects typically interface with another system.	
8.	1/1 point
An object which is responsible for showing data to the user could be considered which category of object?	
O representation	
boundary	
O entity	
0	
control	Activate Windov
Correct Correct! This object interacts with another "system" (the user), so it is considered a boundary object.	Go to Settings to activ

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9.	You are planning a Professor class as part of your software design. Which of these will you consider a collaborator ? Choose the two correct answers.	1 / 1 point
	Course	
	Correct! Typically the Professor will have to teach a course, so a course object is likely to be a collaborator.	
	☐ Teach Course	
	Track Employment Status	
	✓ Student	
	✓ CorrectCorrect! The student and professor classes will likely be collaborators.	
10.	What is a requirement of this form called? "As a, I want to, so that".	1 / 1 point
	O key concept	
	user story	
	entity abstraction	
	0	
	conceptual mockup	
	 Correct Correct! User stories help you to identify the functional requirements of the system. 	

11. You are a programmer creating software for a bank machine system. Which section of a CRC card for the bank machine component will the "User" go into?	1/1 point	
 Class Collaborator Object Responsibility ✓ correct Correct! Users collaborate with the bank machine component. 		
12. During conceptual design, you will talk about (Choose the three correct answers): ✓ tradeoffs	1/1 point	
Correct Correct. Every design decision involves trade-offs, even in the early stages of design. technical diagrams requirements		
 Correct Correct! Customer requirements of what the system should be and do are the start for all discussions of the design. 		A ativata Mindo
✓ mockups ✓ Correct		Activate Window Go to Settings to activa

Correct. Mockups are important for customer communication and to start to think about the architecture.