

GRADE 90%

Final Exam

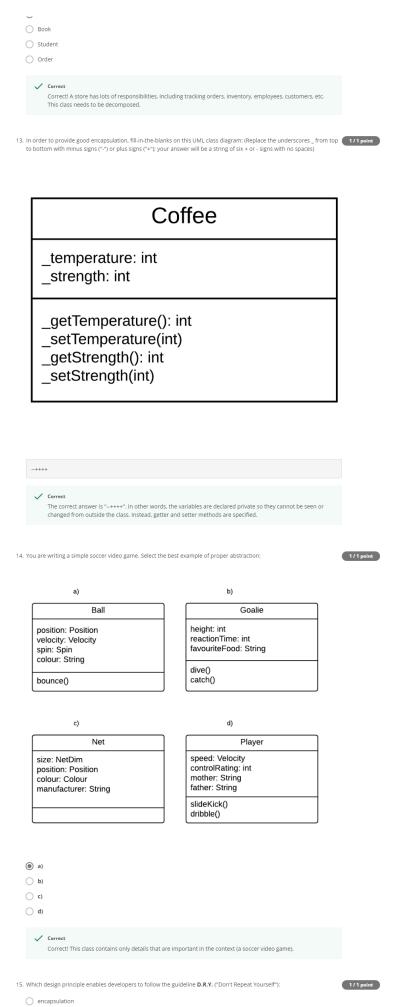
LATEST SUBMISSION GRADE 90%

The fire	st stage of the two-stage design process is design.	1/1 poi
Hint: T mocku	his stage has activities like creating CRC cards, talking with the customer about their requirements, and creating one.	
	eptual	
~	Correct The correct answer is concept or conceptual design. This is the stage before technical design, where you will	
	solicit customer requirements and use this to create a working conceptual design, using mockups and other	
	early design techniques.	
	cond stage of the two-stage design process is design.	1/1 po
	nis is when you will define the structure of the code and start turning your mockups into classes.	
techi	nical	
~	Correct	
	The correct answer is technical design. This is the stage at which the developers will start to turn the conceptual design into a more precise technical design. They could do this by using the UML design language,	
	by specifying which methods will be coded for each class, etc.	
	of these conceptual design techniques will help you analyze the problem space to determine classes for your oriented software? Choose the two correct answers.	1/1 poi
	deoffs	
_ re	quirements	
✓ CF	c	
/	Correct	
Ť	Correct. CRC Cards will help you identify classes.	
✓ m	ockups	
~	Correct Correct. Mockups will help you visualize your problem space in the earliest stages.	
During	conceptual design, once the problem is mapped into components, what are the other two critical pieces of	1/1 po
inform	ation that you must specify for these classes or components? Choose the two correct answers.	
✓ co	llaborators	
_	Correct	
	Correct. Collaborators are other pieces of the software that your component will interact with to fulfill its function!	
V Te	ponsibilities	
~	Correct	
	Correct. Responsibilities are what the component will do or keep track of.	
m	ethods	
ab	stract data types	
You an	e writing the CRC card for a Bear component. Choose the two responsibilities.	1/1 po
✓ hu	nger	
~	Correct Correct. Hunger is not as obvious because it does not have a verb, but you can think of it like this: the bear	
	component needs to keep track of its hunger.	
_ ca	mper	
	mper t berries	
✓ ea	t berries	
✓ ea		

6. You are writing the CRC card for a Bear component. Choose the three collaborators.	1/1 point
✓ bear	
✓ Correct	
Correct. Objects can and often do interact with other objects of their class!	
guitar	
✓ tree	
Correct Correct. A tree is a component that a bear may interact with.	
computer	
✓ den	
a dell	
✓ Correct	
Correct. A den is a component a bear may interact with.	
7. You create an object that represents a user, storing important information about them such as their preferences. What kind of object is this?	1/1 point
oboundary	
entity	
○ control	
Client	
✓ Correct	
Correct! Entity objects often represent real-world objects.	
8. You create an object that represents a dialog box . It creates buttons and text fields, etc, for the user to interact with, an	d 1/1 point
it logs those interactions. What kind of object is this? display	
entity	
boundary	
○ control	
interaction	
Correct Correct! This is a boundary object, because it interfaces with another system (the user)	
9. You create an object that compares values from two different sources. It then updates the smaller value to be equal to	1/1 point
the larger one. What kind of object is this?	
entity update	
© control	
repository	
Correct Correct: This is a control object, because it coordinates the activities of other objects.	
,	
10. Which of these is an example of a quality tradeoff?	1/1 point
Limiting features knowing that they can be added later	- 17 Fpoint
Adding preferences that allow users to switch some features on and off	
Not delivering key features so that deadlines can be met	
Adding security knowing it will reduce speed	
Correct Correct. A tradeoff happens when to make an improvement you must sacrifice some other quality.	
11. What is the term for reducing a class or object to its inputs and outputs in modelling?	1/1 point
filter thinking	
opipe thinking	
black box thinking	
oprocess thinking	
✓ Correct	
Correct! This is called black box thinking, because you don't care what happens inside at this point, only the	
inputs and outputs.	

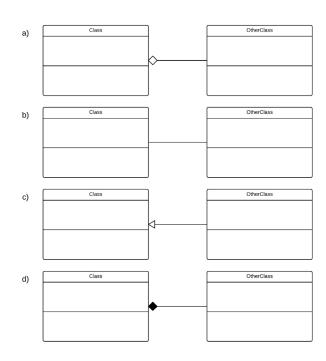
12. Which one of these classes is in most need of being decomposed?

1/1 point





16. Which of these UML class diagrams shows an association relationship?



(a)

b)

() c)

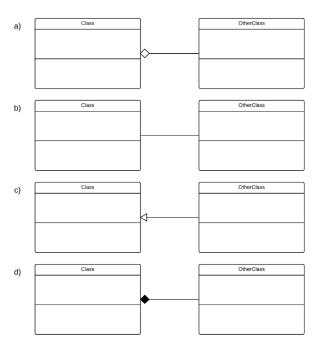
(d)

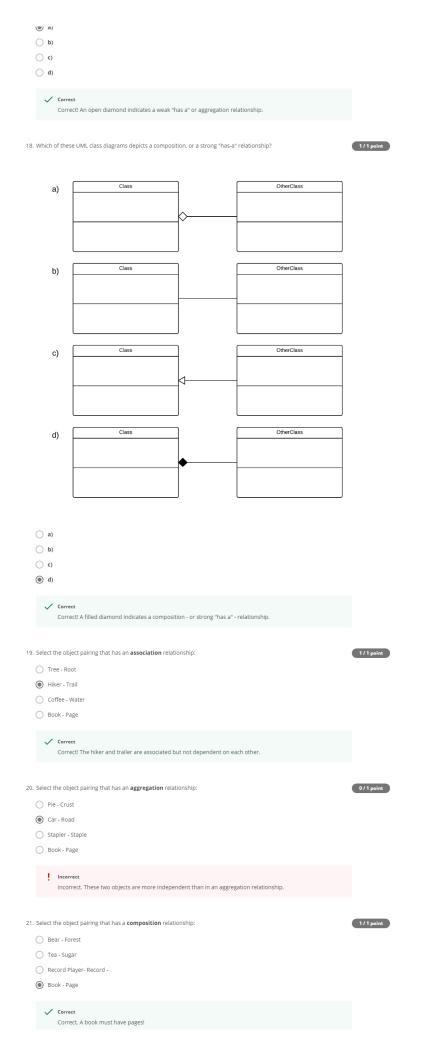
✓ Correct

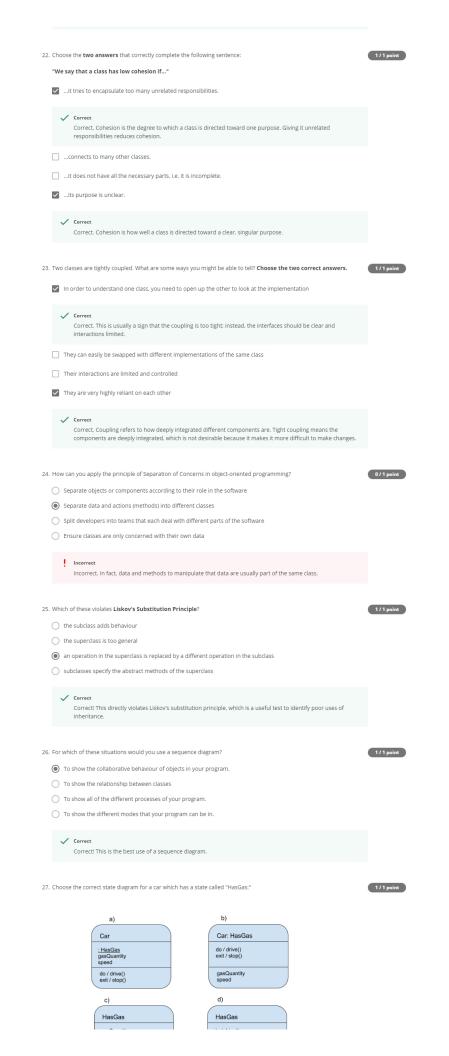
Correct! A simple association relationship is shown with a plain line, often with numbers indicating how many of each object can be associated.

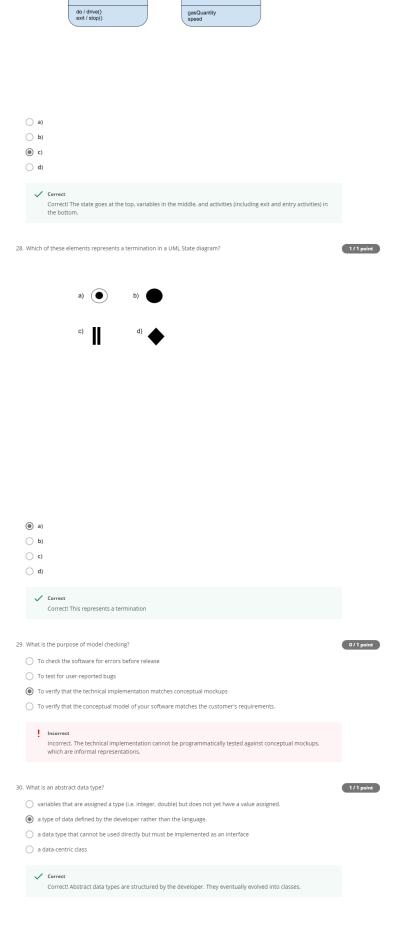
17. Which of these UML class diagrams depicts an aggregation ("has-a") relationship between the two classes?

1/1 point









do / dnve() exit / stop()