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# **Quiz: Low Level Design**

## Question 1

1/1 point (graded)

Which of the following are considered to be benefits of the low level design goal 'Encapsulate what varies'?

Select all that apply.

- it helps decouple implementation from design
- ✓ it makes it easier for systems to be extended
- it improves the reusability of code in a system
- ☑ it helps future bug fixes to be more localized
- it makes systems more dynamic at runtime



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You have used 1 of 1 attempt

### Question 2

1/1 point (graded)

Which of the following are considered to be benefits of the low level design goal 'Design to interfaces'?

Select all that apply.



•	it helps decouple implementation from design					
	it makes it easier for systems to be extended					
•	it improves the reusability of code in a system					
	it helps future bug fixes to be more localized					
	it makes systems more dynamic at runtime					
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<b>Qu</b> 6	estion 3  oint (graded) ch of the following statements is NOT true about design patterns?					
<b>Qu</b> 6	estion 3 oint (graded)					
Que	estion 3  oint (graded)  th of the following statements is NOT true about design patterns?					
Que	estion 3  oint (graded)  th of the following statements is NOT true about design patterns?  they provide solutions for specific evolutionary problems					

Question 4

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1/1 point (graded)

In which scenario would it be most appropriate to use a Singleton pattern?

- we have an object that we want to use sparingly in our system, and we want a single instance of that object
- we have an object that we want to use sparingly in our system, and we want multiple instances of that object
- we have an object that we want to use widely in our system, and we want multiple instances of that object
- we have an object that we want to use widely in our system, and we want a single instance of that object

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#### Question 5

1/1 point (graded)

Which of the following statements are true about the design solution in the Strategy pattern?

- it provides a mechanism for encapsulating algorithms to support future modification
- ☑ it provides a mechanism for encapsulating algorithms to support future extension
- ☑ it provides a mechanism for varying the states of our program in a static way
- it provides a mechanism for varying the states of our program in a dynamic way

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### Question 6

1/1 point (graded)

Within the State pattern, how are state transitions handled?

- at run time, a concrete state invokes the setState method on the context object
  - l lacksquare
- at run time, a client invokes the setState method on the context object
- at run time, a client invokes the setState method on the concrete state object
- at run time, a concrete state invokes the setState method on the concrete state object

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#### Question 7

1/1 point (graded)

What design trade-off is present in the Facade pattern?

- it improves the reusability of code in a system, but it violates the open/closed principle
- it improves the reusability of code in a system, but it violates the dependency inversion principle
- it provides a simplified view of a complex system, but it violates the interface segregation principle

● it provides a simplified view of a complex system, but it violates the single responsibility principle ✔

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# Question 8

1/1 point (graded)

In the Decorator pattern, what purpose does the Component serve?

- it wraps a concrete component in various decorator components
- it wraps a decorator component in various concrete components
- ullet it declares the high level actions that need to be performed ullet
- it controls the interactions between decorator components

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#### Question 9

1/1 point (graded)

What attributes do the MVC and MVP patterns have in common? Select all that apply.

- ✓ they encourage views in a system to be lightweight
- they enhance the testability of a system

	they	always	use the	Observer	pattern
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- they encourage designers to pull functionality out of the model of a system
- they use a controller to decouple the views from the business logic of a system



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