

- (a)
- (b)
- () c)
- (a) d)

Correct

Correct! The key aspect of the template pattern is that some parts of the Template are defined by the subclasses. These are the addSauce(), addIngredient() and addGarnish() methods, and they are in italics because they are abstract in the superclass.

-+	What is the correct situation for the use of a Chain of Responsibility pattern?
	O You need a set of objects to each contribute information on responding to a request.
	You have multiple potential handlers, but only one will deal with the request.
	O You need to pass a message to multiple receivers.
	You need to delegate a set of tasks to a hierarchy of objects.
	✓ Correct
	Correctl The handlers pass the message down until one can handle it or the end of the chain is reached.

1/1 point

(*)	What design principles is the Command Pattern using?	1 / 1 point
	Encapsulation, information hiding, loose coupling	
	Encapsulation, generalization, loose coupling	
	Generalization, information hiding, loose coupling	
	Encapsulation, generalization, information hiding	
	Correct	
	Correct! The command pattern encapsulates a request as an object, provides a general command interface for managing command objects, and allows you to have looser coupling	

between the participants.

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5.	Which are the minimum requirements of the Observer pattern? Choose the three that are correct.
	methods to add or remove observers
	 Correct! There must be a way to track which observers are associated with a subject.
	method to notify observers
	 Correct Correct! The subject has a method for notifying the observers that a change has been made
	a state variable to determine if observers have been notified.
	update method in observers
	Correct Correct! When the observers are informed that a change has been made, they update themselves accordingly.

When are you most likely to need a Mediator pattern?
When you want to de-couple a class that is requesting a service from one that is providing it.
When you are coordinating the activities of a set of related classes.
When your class is sending a request that might be handled by one of several handlers.
When you have two classes with different interfaces that you must connect.
Correct Correct! Use a Mediator pattern to coordinate the activities of many, relatively simple classes

1 / 1 point

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1.	object, these steps will be implemented in slightly different ways, but their order is always the same. Which design pattern could Marlon use?	
	Template pattern	
	O Mediator pattern	
	O Command pattern	
	State pattern	



Correct! The Template pattern specifies a general 'recipe' and some common steps in the superclass, but allows the implementation of many of the steps in that recipe to the subclasses.

What are the important roles in the Command Pattern?	1/1 point
O Delegate, Command, Requester	
Sender, Receiver, Invoker	
Command, Queue, Receiver	
Command, Receiver, Invoker	
 Correct Correct! These are the three roles that must be implemented in a Command pattern. 	

8.



- d)



Correct! The Handler superclass manages the logic for determining where to send the request next. Each subclass tried to handle the request.

1 / 1 point

12.	One of your classes represents a mailbox, while another is the owner of the mailbox. The person would like to know when new mail arrives. Which design pattern will you probably use?
	O Mediator
	O State
	○ Command
	Observer
	Correct Correct! Observer pattern is like subscribing. The Owner is alerted when the mailbox has new mail.