

Modeling and Object GOF Structural Patterns

Author: Yasser Ibrahim

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1. Structural Patterns

4. Chapter: Structural Patterns

1. Structural Patterns Questions

4.1.1. Which of the following is a Gang of Four (GoF) Structural Design Pa...

Author: JavaChamp Team

Which of the following is a Gang of Four (GoF) Structural Design Pattern?

Please choose all the answers that apply:

- Composite
- Flyweight
- Singleton
- Method Factory

Check the answer of this question online at QuizOver.com:

Question: [flyweight gang of four \(gof\) structural design pattern](#)

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4.1.2. You are trying to add a class already written in another applicatio...

Author: JavaChamp Team

You are trying to add a class already written in another application to serve clients, beside other classes, in your system. All other classes have the same interface, the incoming class has a totally different interface than the clients expect, but contains all required functionalities.

What kind of refactoring is needed to make this class fit in with minimum changes in your system?

Please choose only one answer:

- apply the Proxy Pattern
- apply the Adapter Pattern
- create a new class which implements the expected interface and copy and paste the code from the class in the other application to this new class

Check the answer of this question online at QuizOver.com:

Question: [when to use gang of four adapter design pattern?](#)

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4.1.3. What is the difference between an adapter and a decorator?

Author: JavaChamp Team

What is the difference between an adapter and a decorator?

Please choose all the answers that apply:

- The adapter adds no functionalities to the adaptee class, whereas the Decorator extends the functionality of the object
- The adapter is a creational pattern, whereas the decorator is a structural design pattern
- Both introduce a level of indirection between a client class and a class it uses

Check the answer of this question online at QuizOver.com:

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4.1.4. Which best defines the use of the Composite Design Pattern?

Author: JavaChamp Team

Which best defines the use of the Composite Design Pattern?

Please choose only one answer:

- the Composite design pattern allows the clients to build a complex object of smaller different ones
- the Composite design pattern allows adding and removing functionality dynamically
- the Composite design pattern allows the clients to treat individual objects and compositions uniformly

Check the answer of this question online at QuizOver.com:

Question: [when to use the gang of four composite design pattern?](#)

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4.1.5. It is also known as Wrapper, it is used when subclassing is not pos...

Author: JavaChamp Team

It is also known as Wrapper, it is used when subclassing is not possible or practical to add functionality and it is used to add functionality at runtime. This pattern is :

Please choose only one answer:

- Composite
- Adapter
- Decorator
- Proxy

Check the answer of this question online at QuizOver.com:

Question: [gang of four wrapper pattern](#)

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4.1.6. Big portion of clients are remotely invoking methods in your system...

Author: JavaChamp Team

Big portion of clients are remotely invoking methods in your system, the surface area exposed to clients includes fine-grained methods, which of course causes network overhead.

Which pattern would improve your system performance in this case?

Please choose only one answer:

- Chain of Responsibility Pattern
- Facade Pattern
- Command Pattern
- Adapter Pattern

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4.1.7. It is a pattern used to minimize memory use by letting similar obje...

Author: JavaChamp Team

It is a pattern used to minimize memory use by letting similar objects share as much data as possible stored in a sharable object.

Please choose only one answer:

- Flyweight
- Composite
- Iterator
- Momento

Check the answer of this question online at QuizOver.com:

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4.1.8. Which pattern is utilized in this example ?

Every character object...

Author: JavaChamp Team

Which pattern is utilized in this example ?

Every character object in a word document has data about the graphical representation and the position, but to avoid redundant graphical representation data for objects to the same character, it is advisable to extract out these representation data to one shared object between these objects, and store only the position of each character internally in each object.

Please choose only one answer:

- Abstract Factory
- Method Factory
- Builder
- Flyweight

Check the answer of this question online at QuizOver.com:

Question: [flyweight pattern example](#)

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4.1.9. A pattern known as Surrogate is :

Author: JavaChamp Team

A pattern known as Surrogate is :

Please choose only one answer:

- Adapter
- Proxy
- Facade
- Method Factory

Check the answer of this question online at QuizOver.com:

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4.1.10. Which design pattern can be used to implement Lazy Loading?

Author: JavaChamp Team

Which design pattern can be used to implement Lazy Loading?

Please choose only one answer:

- Adapter
- Mediator
- Proxy
- Chain of Responsibility

Check the answer of this question online at QuizOver.com:

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4.1.11. A Proxy Pattern is best used to :

Author: JavaChamp Team

A Proxy Pattern is best used to :

Please choose all the answers that apply:

- control access to a remote object
- assemble complex objects
- fetch a resource-intensive object when requested by a client
- store common redundant data between large number of objects
- extract out from the calling client the access or connection logic needed to call an object

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4.1.12. You design an application for an advertisement company, which prod...

Author: Yasser Ibrahim

You design an application for an advertisement company, which produces different sort of publications such as books, articles, leaflets, etc.

The company publishes those products in many media formats such as printed material, CD, DVD, online websites, etc.

How you would model the company products hierarchy (Publications, Media)?

Please choose only one answer:

- Use composite design pattern to enable the publication and media hierarchies to be treated in the same way as a single instance of an object.
- Use the adapter design pattern to translates publication interface into a compatible media interface.
- Use bridge design pattern to build separate hierarchies for the publications and the media, to decouple the abstraction from its implementation so that the two can vary independently

Check the answer of this question online at QuizOver.com:

Question: [gang of four bridge design pattern](#)

Flashcards:

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Interactive Question:

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4.1.13. Which design pattern you would you use to decouple an abstraction f...

Author: Yasser Ibrahim

Which design pattern you would you use to decouple an abstraction from its implementation so that the two can vary independently?

Please choose only one answer:

- Adapter design pattern
- bridge design pattern
- Facade design pattern
- Composite bridge design pattern

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4.1.14. Which of the following are participants in the GOF bridge design pa...

Author: Yasser Ibrahim

Which of the following are participants in the GOF bridge design pattern ?

Please choose all the answers that apply:

- Abstraction
- Bridge
- RefinedAbstraction
- Class Generalization
- Implementor

Check the answer of this question online at QuizOver.com:

Question: [what are the bridge design pattern participants?](#)

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4.1.15. Which design pattern you would you use to translates an existing cl...

Author: Yasser Ibrahim

Which design pattern you would you use to translates an existing class interface into a compatible target interface?

Please choose only one answer:

- Proxy design pattern
- Adapter design pattern
- Facade design pattern
- Adapter factory design pattern

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Question: [gang of four adapter pattern forces](#)

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4.1.16. Which of the following are participants in the GOF Adapter design p...

Author: Yasser Ibrahim

Which of the following are participants in the GOF Adapter design pattern?

Please choose all the answers that apply:

- Adapter
- Adaptee
- Bridge
- Target interface

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4.1.17. When would you use the GOF Adapter design pattern?

Author: Yasser Ibrahim

When would you use the GOF Adapter design pattern?

Please choose all the answers that apply:

- to translates an existing class interface into a compatible target interface
- to improve your system performance
- to transforming the client code data into appropriate format expected by the target interface
- to allow classes with incompatible interfaces to work together

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Question: [gang of four adapter design pattern applicability](#)

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4.1.18. What are the consequences of applying the GOF Adapter pattern?

Author: Yasser Ibrahim

What are the consequences of applying the GOF Adapter pattern?

Please choose all the answers that apply:

- it will improve the system performance
- it makes the client code easier by interacting with a single uniform interface
- it must modify the adaptee class
- it establishes a flexible mechanism for instantiating an object in comparison to the usual java constructor instantiation.

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Question: [gang of four adapter design pattern consequences](#)

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4.1.19. What are the common implementation strategies of the GOF Adapter pa...

Author: Yasser Ibrahim

What are the common implementation strategies of the GOF Adapter pattern?

Please choose all the answers that apply:

- Factory Adapter
- Object Adapter
- Class Adapter
- Interface Adapter

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Question: [gof adapter pattern implementation strategies](#)

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4.1.20. Which design pattern you would you use to arrange object hierarchie...

Author: Yasser Ibrahim

Which design pattern you would you use to arrange object hierarchies such that the client code can access both the individual objects and compositions in a uniform manner ?

Please choose only one answer:

- Adapter design pattern
- Composite design pattern
- Composite adapter design pattern
- Composite factory design pattern

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Question: [gang of four composite design pattern forces](#)

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4.1.21. Which of the following are participants in the GOF Composite design...

Author: Yasser Ibrahim

Which of the following are participants in the GOF Composite design pattern?

Please choose all the answers that apply:

- Component
- Compound
- Leaf
- Connection
- Composite

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4.1.22. What are the consequences of applying the GOF Composite pattern?

Author: Yasser Ibrahim

What are the consequences of applying the GOF Composite pattern?

Please choose all the answers that apply:

- the client code can traverse tree structures of arbitrary depth recursively
- increases the coupling between the client code and the composite structure
- it will improve the system performance
- the client code can access both the individual objects and compositions in a uniform manner

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4.1.23. When would you use the GOF Composite design pattern?

Author: Yasser Ibrahim

When would you use the GOF Composite design pattern?

Please choose all the answers that apply:

- to decouple an abstraction from its implementation so that the two can vary independentl
- to translates an existing class interface into a compatible target interface
- to arrange object hierarchies such that the client code can access both the individual objects and compositions in a uniform manner
- to improve the system overall performance

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4.1.24. Which design pattern is used in the Java AWT Abstract Window Toolkit?

Author: Yasser Ibrahim

Which design pattern is used in the Java AWT Abstract Window Toolkit?

Please choose only one answer:

- Adapter design pattern
- Composite design pattern
- Bridge design pattern
- Proxy design pattern

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Question: [gang of four composite design pattern java usages](#)

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4.1.25. What are the consequences of applying the GOF Bridge pattern?

Author: Yasser Ibrahim

What are the consequences of applying the GOF Bridge pattern?

Please choose all the answers that apply:

- it makes implementing the client code easier by interacting with a single uniform interface
- it decouples an abstraction from its implementation so that the two can vary independently
- it will decrease the system extesibility
- the client code can traverse tree structures of arbitrary depth recursively

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4.1.26. When would you use the GOF Bridge design pattern?

Author: Yasser Ibrahim

When would you use the GOF Bridge design pattern?

Please choose all the answers that apply:

- to implement lazy loading of expensive objects
- to improve system reliability and scalability
- to decouple an abstraction from its implementation so that the two can vary independently
- to hide the implementation details from the client code of your design

Check the answer of this question online at QuizOver.com:

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4.1.27. Which design pattern you would you use to assign more functionality...

Author: Yasser Ibrahim

Which design pattern you would you use to assign more functionality to an object without sub-classing it?

Please choose only one answer:

- Bridge design pattern
- Adapter design pattern
- Composite design pattern
- Decorator design pattern

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4.1.28. Which of the following are participants in the GOF Decorator design...

Author: Yasser Ibrahim

Which of the following are participants in the GOF Decorator design pattern?

Please choose all the answers that apply:

- Abstract Decorator
- Virtual Decorator
- Decorator
- Concrete Decorator
- Component

Check the answer of this question online at QuizOver.com:

Question: [gang of four decorator design pattern participants](http://www.quizover.com/question/gang-of-four-decorator-design-pattern-participants)

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4.1.29. What are the consequences of applying the GOF Decorator pattern?

Author: Yasser Ibrahim

What are the consequences of applying the GOF Decorator pattern?

Please choose all the answers that apply:

- it makes the client code easier by interacting with a single uniform interface
- the client code can traverse tree structures of arbitrary depth recursively
- it will will not alter the class inheritance hierarchy to accommodate for the additional functionality
- it allows to nest layers of decorators to add more functionality

Check the answer of this question online at QuizOver.com:

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4.1.30. When would you use the GOF Decorator design pattern?

Author: Yasser Ibrahim

When would you use the GOF Decorator design pattern?

Please choose all the answers that apply:

- to translates an existing class interface into a compatible target interface
- to assign more functionality to an object without sub-classing it
- to decouple an abstraction from its implementation so that the two can vary independently
- to nest layers of decorators to add more functionality

Check the answer of this question online at QuizOver.com:

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4.1.31. What are the consequences of applying the GOF Decorator pattern?

Author: Yasser Ibrahim

What are the consequences of applying the GOF Decorator pattern?

Please choose all the answers that apply:

- the client code can gradually add more functionality as it nests more layers of decorators
- it assigns more functionality to an object without sub-classing it
- it makes it harder to identify the the decorated and the decorator objects
- the client code can traverse tree structures of arbitrary depth recursively

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4.1.32. Which design pattern is used in the Java InputStream, OutputStream,...

Author: Yasser Ibrahim

Which design pattern is used in the Java InputStream, OutputStream, Reader, Writer hierarchies?

Please choose only one answer:

- Adapter design pattern
- Decorator design pattern
- Composite design pattern
- Bridge design pattern

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4.1.33. You are building an online makeup website, which provides beside te...

Author: JavaChamp Team

You are building an online makeup website, which provides beside text articles, makeup tutorials as videos files.

Which pattern is recommended to use in such a website to deliver these media resources?

Please choose only one answer:

- value list handler
- virtual proxy
- intercepting filter
- composite view

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