

Modeling and Object GOF Creational Patterns

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1. Creational Patterns

4. Chapter: Creational Patterns

1. Creational Patterns Questions

4.1.1. Which pattern is most appropriate when a decision must be made at t...

Author: JavaChamp Team

Which pattern is most appropriate when a decision must be made at the time a class is instantiated?

Please choose only one answer:

- Bridge
- Composite
- Factory Method
- Command

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4.1.2. Given the following scenario:
You want to create families of relat...

Author: [JavaChamp Team](#)

Given the following scenario:

You want to create families of related objects, to be used interchangeably to configure you application. What is the most appropriate GoF pattern to use?

Please choose only one answer:

- Chain of Responsibility
- Abstract Factory
- Builder
- Observer

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4.1.3. It is also known as Virtual Constructor and it is used to define an...

Author: JavaChamp Team

It is also known as Virtual Constructor and it is used to define an interface for creating an object

but letting the subclass decide which class to instantiate, this pattern is :

Please choose only one answer:

- Builder
- Abstract Factory
- Prototype
- Factory Method

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4.1.4. You want all the clients using class A to use the same instance of ...

Author: JavaChamp Team

You want all the clients using class A to use the same instance of class A, what should you do to achieve this goal?

Please choose only one answer:

- mark class A final
- mark class A abstract
- apply the Singleton pattern to class A
- apply the Memento pattern to class A

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4.1.5. Which of the following are participants in the GOF abstract factory...

Author: Yasser Ibrahim

Which of the following are participants in the GOF abstract factory design pattern ?

Please choose all the answers that apply:

- Factory methods
- Factory constructors
- Abstract factory
- Abstract product
- Concrete factory

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4.1.6. When would you use the GOF abstract factory pattern?

Author: Yasser Ibrahim

When would you use the GOF abstract factory pattern?

Please choose all the answers that apply:

- To design a structure which has a uniform interface for both compositions of objects and individual objects.
- To ensure that a certain group of related objects are used together
- The client which uses your design is not dependent on how the object are created or connected together
- To decouple the creation of objects from their usage

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4.1.7. What are the consequences of applying the abstract factory patter?

Author: Yasser Ibrahim

What are the consequences of applying the abstract factory patter?

Please choose all the answers that apply:

- it will be much easier to introduce new family of products
- it makes it easier for a certain family of objects to work together
- it makes it easier for the client to deal with tree-structured data
- it makes the designed product families exchangeable

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4.1.8. Which design pattern you would you use to decouple the creation pro...

Author: Yasser Ibrahim

Which design pattern you would you use to decouple the creation procedure of a complex object from it's concrete instance to be able to apply that procedure on variety of implementations.

Please choose only one answer:

- Factory builder design pattern
- Method Builder design pattern
- Builder design pattern
- Factory method design pattern

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4.1.9. What would lead you to apply the builder design pattern?

Author: Yasser Ibrahim

What would lead you to apply the builder design pattern?

Please choose all the answers that apply:

- To abstract steps of construction of objects so that different implementations
- To apply the same object construction procedure on variety of representations
- To translates one interface for a class into a compatible interface
- To restrict instantiation of a class to one object

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4.1.10. Which of the following are participants in the GOF builder design p...

Author: Yasser Ibrahim

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

Please choose all the answers that apply:

- Builder interface
- Constructor Interface
- Director Interface
- Concrete Builder class
- Concrete constructor class

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4.1.11. What are the consequences of applying the Builder design pattern?

Author: Yasser Ibrahim

What are the consequences of applying the Builder design pattern?

Please choose all the answers that apply:

- it makes the designed product hierarchies exchangeable
- it's easier to introduce new product implementation
- it separates the product construction from its representation
- the director has fine control over the product creation procedure

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4.1.12. When would you use the GOF builder design pattern?

Author: Yasser Ibrahim

When would you use the GOF builder design pattern?

Please choose all the answers that apply:

- to abstract steps of construction of complex objects
- to build different representations of complex objects based on the concrete implementations of construction procedure
- to establish an interface for creating an object, but let the concrete implementations decide which subclass to instantiate
- to encapsulate a family of individual factories that have a common theme

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4.1.13. Which design pattern you would you use to control the creation of a...

Author: Yasser Ibrahim

Which design pattern you would you use to control the creation of an object based on a established interface, while allowing the concrete implementation to determine the subclass to construct.

Please choose only one answer:

- Singleton design pattern
- Builder Factory design pattern
- Prototype factory design pattern
- Factory method design pattern

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4.1.14. The factory method design pattern is also known as:

Author: Yasser Ibrahim

The factory method design pattern is also known as:

Please choose only one answer:

- Abstract factory
- Abstract Constructor
- Virtual factory
- Virtual Constructor

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4.1.15. When would you use the GOF Factory method design pattern?

Author: Yasser Ibrahim

When would you use the GOF Factory method design pattern?

Please choose all the answers that apply:

- To ensure that a certain group of related objects are used together
- To control the creation of an object based on a established interface
- To allow the concrete implementation to determine the subclass to construct.
- To abstract steps of construction of complex objects

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

Author: Yasser Ibrahim

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

Please choose all the answers that apply:

- Creator
- Product
- Refined Abstraction
- Abstract factory

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4.1.17. What are the consequences of applying the GOF factory method pattern?

Author: Yasser Ibrahim

What are the consequences of applying the GOF factory method pattern?

Please choose all the answers that apply:

- it decouples the client code from the application specific classes
- it makes the designed product families exchangeable
- it establishes a flexible mechanism for instantiating an object in comparison to the usual java constructor instantiation.

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4.1.18. Which design pattern is used in the Java Database connectivity JDBC...

Author: Yasser Ibrahim

Which design pattern is used in the Java Database connectivity JDBC(TM)?

Please choose only one answer:

- Builder design pattern
- Factory method design pattern
- Abstract Factory design Pattern
- Singleton design Pattern

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4.1.19. Which design pattern you would you use to have a prototypical insta...

Author: Yasser Ibrahim

Which design pattern you would you use to have a prototypical instance determine the concrete class of object being created?

Please choose only one answer:

- Prototype factory design pattern
- Virtual prototype design pattern
- Abstract prototype design pattern
- Prototype design pattern

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4.1.20. Which of the following are participants in the GOF Prototype design...

Author: Yasser Ibrahim

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

Please choose all the answers that apply:

- Prototype
- Abstract Prototype
- Virtual Prototype
- Concrete Prototype

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4.1.21. When would you use the GOF Prototype design pattern?

Author: Yasser Ibrahim

When would you use the GOF Prototype design pattern?

Please choose all the answers that apply:

- To abstract steps of construction of complex objects
- To determine the classes to be instantiated at run time
- To avoid the proliferation of the class hierarchy
- To restrict class instantiation to one object

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

Author: Yasser Ibrahim

What are the consequences of applying the GOF Prototype pattern?

Please choose all the answers that apply:

- each concrete prototype class must implement the clone method
- it makes it easier for a certain family of objects to work together
- it enable the client code to register an new concrete prototype instance at run time
- it reduces of the class hierarchy as compared to the other factory design patterns

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4.1.23. Which design pattern you would you use to limit the class instantia...

Author: Yasser Ibrahim

Which design pattern you would you use to limit the class instantiation to one object?

Please choose only one answer:

- Factory Method Design Pattern
- Builder design pattern
- Prototype design pattern
- Singleton design pattern

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4.1.24. When would you use the GOF Singleton design pattern?

Author: Yasser Ibrahim

When would you use the GOF Singleton design pattern?

Please choose all the answers that apply:

- to ensure that a certain group of related objects are used together
- to limit the class instantiation to one object
- to provide global access to once instance across the system
- to abstract steps of construction of complex objects

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4.1.25. Which of the following are participants in the GOF Singleton design...

Author: Yasser Ibrahim

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

Please choose all the answers that apply:

- Abstract Singleton
- Singleton
- Concrete Singleton
- Singleton factory

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4.1.26. Which of the following code snippet represents a Singleton design p...

Author: Yasser Ibrahim

Which of the following code snippet represents a Singleton design pattern implementation?

Please choose only one answer:

- ```
public class PrintSpooler {
 public PrintSpooler INSTANCE = new PrintSpooler();
 public PrintSpooler () {}
 public static PrintSpooler getInstance() {
 return INSTANCE;
 }
}
```
- ```
public class PrintSpooler {
    private PrintSpooler INSTANCE = new PrintSpooler();
    private PrintSpooler () {}
    public static PrintSpooler getInstance() {
    return INSTANCE;
    }
}
```
- ```
public class PrintSpooler {
 private static final PrintSpooler INSTANCE = new PrintSpooler();
 private PrintSpooler () {}
 public static PrintSpooler getInstance() {
 return INSTANCE;
 }
}
```
- ```
public class PrintSpooler {
    private final PrintSpooler INSTANCE = new PrintSpooler();
    private PrintSpooler () {}
    public static PrintSpooler getInstance() {
    return INSTANCE;
    }
}
```

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4.1.27. Which GOF design pattern is applied in the code snippet below?

Author: Yasser Ibrahim

Which GOF design pattern is applied in the code snippet below?

```
public class PrintSpooler {  
private static final PrintSpooler INSTANCE = new PrintSpooler();  
private PrintSpooler() {}  
public static PrintSpooler getInstance() {  
return INSTANCE;  
}  
}
```

Please choose only one answer:

- PrintSpooler design pattern
- Spooler design pattern
- Singleton design pattern
- Factory design pattern
- Abstract Singleton design pattern

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4.1.28. how to implement the Singleton design pattern? specify all the need...

Author: Yasser Ibrahim

how to implement the Singleton design pattern? specify all the needed steps that apply.

Please choose all the answers that apply:

- add final modifier to the Class declaration
- add final modifier to the constructor declaration
- add private or protected modifier to the constructor declaration
- introduce a final static constructor of the Singleton class
- introduce a static getter method for the Singleton instance
- The class name must be Singleton

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

Author: Yasser Ibrahim

What are the consequences of applying the GOF Singleton pattern?

Please choose all the answers that apply:

- it introduces thread safety issue when the singleton instance is instantiated on demand
- the client code can create multiple instances at run time
- it reduces the class hierarchy as compared to the other factory design patterns
- it makes it easier for a certain family of objects to work together

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