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Java initializers, constructors, regular methods and static factory methods – when to use them with examples.

Posted on [November 22, 2014](#) by [Arulkumaran Kumaraswamipillai](#) — 2

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Q1. What are “static initializers” or “static blocks with no function names” in Java?

A1. When a class is loaded, all blocks that are declared static and don't have function name (i.e. static initializers) are

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executed even before the constructors are executed. As the name suggests they are typically used to initialize static fields.

```

1 public class StaticInitializer {
2     public static final int A = 5;
3     public static final int B;
4     //note that since final above line cannot do
5
6     //Static initializer block, which is executed
7
8     static {
9         if(A == 5)
10            B = 10;
11        else
12            B = 5;
13    }
14
15    public StaticInitilaizer(){} //constructor i
16 }
17

```

The following code gives an Output of A=5, B=10.

```

1 public class Test {
2     System.out.println("A =" + StaticInitilaizer.
3 }
4

```

Q2. How will you initialize an instance variable say *dueDate* to first day of next month?

A2. Like static initializers, you can use an initializer block for instance variables. Initializer blocks for instance variables look just like static initializer blocks, but without the 'static' keyword.

```

1 public class Initilization {
2
3     private Date dueDate;
4
5     //initializer block
6     {
7         Calendar cal = GregorianCalendar.getInst
8         cal.add(Calendar.MONTH, 1);
9         cal.set(Calendar.DAY_OF_MONTH, 1);
10        dueDate = cal.getTime( ); //dueD
11    }
12
13    //...
14
15    public static void main(String[ ] args) {
16        Initilization init = new Initilization(

```

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```

17         System.out.println("dueDate = " + init.d
18     }
19 }
20

```

Constructors Vs Regular Methods

Q3. What is the difference between constructors and other regular methods? What happens if you do not provide a constructor? Can you call one constructor from another? How do you call the superclass' constructor?

A3.

Constructors	Regular meth
Constructors must have the same name as the class name and cannot return a value. The constructors are called only once per creation of an object while regular methods can be called many times. E.g. for a Pet.class	Regular method number of times
<pre> 1 public Pet() {} // constructor 2 </pre>	<pre> 1 // regular 2 public void 3 </pre> <p>Note: method n: differentiate a cc convention is to lowercase like:</p> <pre> 1 // regular 2 public Pet 3 </pre>

Q4. What happens if you do not provide a constructor?

A4. Java does not actually require an explicit constructor in the class description. If you do not include a constructor, the Java compiler will create a default constructor in the byte code with an empty argument. This default constructor is equivalent to the explicit "**Pet(){}**". If a class includes one or

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more explicit constructors like “`public Pet(int id)`” or “`Pet(){}`” etc, the java compiler does not create the default constructor “`Pet(){}`”.

Q5. Can you call one constructor from another?

A5. Yes, by using ***this()*** syntax. E.g.

```

1 public Pet(int id) {
2     this.id = id;           // “this”
3 }
4 public Pet (int id, String type) {
5     this(id);               // calls c
6     this.type = type;       // “this” m
7 }
8

```

Q6. How to call the superclass constructor?

A6. If a class called “*SpecialPet*” extends your “*Pet*” class then you can use the keyword “*super()*” to invoke the superclass’s constructor. E.g.

```

1 public SpecialPet(int id) {
2     super(id);              //must be t
3 }
4

```

To call a regular method in the super class use:

“***super.myMethod()***”. This can be called at any line. Some frameworks based on JUnit add their own initialization code, and not only do they need to remember to invoke their parent’s *setUp* method, you, as a user, need to remember to invoke them after you wrote your initialization code:

```

1 public class DBUnitTestCase extends TestCase {
2     public void setUp() {
3         super.setUp();
4         // do my own initialization
5     }
6 }
7
8 public void cleanUp() throws Throwable
9 {
10     try {
11         ... // Do stuff here to clean up your objec
12     }
13     catch (Throwable t) {}
14     finally{
15         super.cleanUp(); //clean up your parent

```

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```

16                                     // super.regularMethod
17         }
18     }
19

```

Q7. Why do `super(..)` and `this(..)` calls need to be in the first line of a constructor?

A7. The parent class' constructor needs to be called before the subclass' constructor. This will ensure that if you call any methods on the parent class in your constructor, the parent class has already been set up correctly.

In cases where a parent class has a default constructor the call to `super` is inserted for you automatically by the compiler. Enforcing `super` to appear first, enforces that constructor bodies are executed in the correct order. *Object* → *Pet* → *SuperPet*

The compiler also forces you to declare ***this(..)*** as the first statement within a constructor, otherwise, you will get compile-time error.

Q8. Can constructors have private access modifiers? If yes, can you give an example?

A8. Yes. **Singleton** (i.e design pattern) classes use **private constructors** as shown below.

```

1  public final class MySingletonFactory {
2
3      private static final MySingletonFactory inst
4
5      private MySingletonFactory( ){ }
6
7      public static MySingletonFactory getInstance
8          return instance;
9      }
10 }
11

```

Use cases for **private constructors**:

- The classes with a private constructor cannot be extended from outside even if not declared as final.

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- The classes with a private method cannot be invoked from outside. Only the factory methods within that class like *getInstance()*, *deepCopy(...)*, etc can access a private constructor.

Q9. What are **static factory methods** in Java?

A9. The **factory method pattern** is a way to encapsulate object creation. Without a factory method, you would simply call the class' constructor directly:

```
1 Pet p = new Pet( );
2
```

With this pattern, you would instead call the factory method:

```
1 Pet p = Pet.getInstance();
2
3
```

The constructors are marked private, so they cannot be called except from inside the class, and the factory method is marked as static so that it can be called without first having an object.

Java API have many factory methods like *Calendar.getInstance()*, *Integer.valueOf(5)*, *DriverManager.getConnection()*, *Class.forName()*, etc.

Q10. What are the benefits of static factory methods over using constructors directly?

A10.

- Factory can choose from many subclasses (or implementations of an interface) to return. This allows the caller to specify the behavior desired via parameters, without having to know or understand a potentially complex class hierarchy.
- The factory can apply the fly weight design pattern to cache objects and return cached objects instead of

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creating a new object every time. In other words, objects can be pooled and reused. This is the reason why you should favor using *Integer.valueOf(6)* as opposed to **new Integer(6)**.

- The factory methods have more meaningful names than the constructors. For example, *getInstance()*, *valueOf()*, *getConnection()*, *deepCopy()*, etc.

Here is a factory method example to deeply clone a list of objects.

```

1 public static List<Car> deepCopy(List<Car> listC
2     List<Car> copiedList = new ArrayList<Car>(1
3     for (Car car : listCars) {
4         Car carCopied = new Car();
5         carCopied.setColor((car.getColor()));
6         copiedList.add(carCopied);
7     }
8     return copiedList;
9 }
10

```

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