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♦ Java enum interview questions & answers

Posted on [June 29, 2015](#) by [Arulkumaran Kumaraswamipillai](#)

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Covers the power of **enum** and **3 design patterns** that can be applied with the help of enums.

Q1. Why is it a best practice to use enums over static final int or String constants?

A1.

1) static final allows invalid values. Any integer value can be assigned, although there are only 4 valid choices.

```
1 season = 25;
2
```

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With enums:

```
1 public enum Season {Spring, Summer, AUTUMN, WINTER}
2
3 private Season season= Season.WINTER ; //only one
4
```

2) No easy methods to convert values to and from a string form. Enums have methods like `season.toString()` and `valueOf("...")` method to convert a string value to enum.

3) Static final is less readable and requires more maintenance due to additional look-up code. If there are additions, deletions, or re-orderings to a constant class, the other dependent classes using the constant class will not automatically be readjusted to reflect these changes.

4) Fragile for loops as iterating over all values is subject to errors which are not diagnosed at compile time if the values are rearranged, deleted, or added to. There is no way to use the enhanced for loop like you can for the enums.

```
1 //using J2SE 5.0 for each loop
2 for (Season season : Season.values( )) {
3     listWeather.add(new Weather(season));
4 }
5
```

5) Static final only has values no behavior. Enums can have behavior as shown below with the **command objects** and **template pattern**.

```
1
2 import java.util.EnumSet;
3 import java.util.HashMap;
4 import java.util.Map;
5
6 public enum Season {
7
8     WINTER("WT") {
9         @Override
10         public void execute( ) {
11             System.out.println("Winter...");
12         }
13     },
14     SPRING("SP") {
15         @Override
```

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☐ GC (2)

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```

16         public void execute( ) {
17             System.out.println("Spring....");
18         }
19     };
20
21     private static final Map<String, Season> lookup =
22         new HashMap<String, Season>( );
23
24     static {
25         for (Season s : EnumSet.allOf(Season.class))
26             lookup.put(s.getCode( ), s);
27     }
28
29     private String code;
30
31     private Season(String code) {
32         this.code = code;
33     }
34
35     public String getCode( ) {
36         return code;
37     }
38
39     //template method
40     public abstract void execute( );
41
42     //reverse lookup method
43     public static Season getByCode(int code) {
44         return lookup.get(code);
45     }
46 }
47
48

```

Unsightly switch/case or if/else statements can be minimized or avoided with the help of template method pattern shown above. The client code would use something like `season.execute()`. The static `getByCode(String)` method provides the reverse lookup by simply getting the value from the Map. The static block that populates the Map, uses a specialized implementation of Set, `java.util.EnumSet`, which has better performance than `java.util.HashSet`. Java 5.0 also provides a more compact and specialized implementation of Map for enums with `java.util.EnumMap`.

Q2. Can enums be used in switch statements?

A2. Yes. The switch statement was enhanced to allow use of enums. It is important to note that the case values don't have to be qualified with the enum class name, which can be determined from the switch control value.

```

1 Weather w = new Weather(Season.WINTER);
2 switch (w.season) {

```

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```

3 //values are not fully qualified with the enum
4 case WINTER:
5     System.out.println("It is Winter");
6     break;
7 case SPRING:
8     System.out.println("It is Spring");
9     break;
10 default:
11     break;
12 }
13

```

Q3. How will you get an integer equivalent of an enum value?

A3. Using the ordinal() method.

```

1 w.season.ordinal( );

```

Q4. How will you convert a String value to an enum value?

A4. Using the valueOf() method. You can use the methods name() or toString() to convert an enum value back to a string value.

Q5. Would you use equals() or == to compare enum values?

A5. Both equals(..) and == amount to the same thing, and can be used interchangeably as enums are implicitly public static final.

Q6. Do you have to override equals() and hashCode() methods for enum?

A6. No. Since you can only create one instance (i.e. singleton) of each season, you don't have to override these methods. The class Enum declares equals(), hashCode(), clone(), and compareTo() methods as final. You can override the toString() method to provide better information for debugging.

Q7. Are enums immutable?

A7. Yes. As with any class, it is easy to provide methods in an enum type which can change the state of an enum constant. Hence, the term "enum constant" is misleading. What is constant is the identity of the enum element, not its state. Perhaps a better term would have been "enum" instead of "enum constant". The enum classes can have behavior,

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04: Convert Lists

hence the responsibility is on the developers to make it immutable.

Since **enum is basically a special class type, and can have methods and fields** just like any other class, you can apply the “**template method**” design pattern to create enumerations that are factories or command objects as illustrated above.

Q8. How can you use enums to create a singleton class?

A8. The singleton pattern restricts the instantiation of a class to one object. Here is a simple example.

```

1 public enum UserServiceFactoryEnum {
2
3     INSTANCE;
4
5     //private constructor
6     private UserServiceFactoryEnum() {}
7
8     public void doSomething(String name) {
9         System.out.println("Singleton using Enum");
10    }
11 }
```

Now, how to use it?

1

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