

Errata

Hi guys, I am really thankful to all of you that have bought the book and have contributed to finding mistakes in it and in the code. Because of you, I have taken another careful look at the book questions and answers and decided this errata was needed.

B.1 Book corrections

Chapter 1: Introduction

The section **About the Certification Exam** needs an update on pages 3 and 4. Starting with January 2017 the exam is taken directly from home and the voucher is valid only three months. *(Submitted by Vittorio Marino)*

Chapter 2: Spring Bean LifeCycle and Configuration

In the section **Setter Injection** section, page 34 in the examples a bean named `simpleBean0` is declared, but not used as a dependency in the `complexBean`. The intended name, was obviously `simpleBean`. *(Reported by Gautham Kurup)*

! The original (erroneous) code sample is this:

```
<beans ...>
    <bean id="simpleBean0" class="com.ps.beans.SimpleBeanImpl"/>
    <bean id="complexBean" class="com.ps.beans.set.ComplexBeanImpl">
        <property name="simpleBean" ref="simpleBean"/>
    </bean>
</beans>
```

! And in future editions of the book, will be replaced with this:

```
<beans ...>
    <bean id="simpleBean" class="com.ps.beans.SimpleBeanImpl"/>
    <bean id="complexBean" class="com.ps.beans.set.ComplexBeanImpl">
        <property name="simpleBean" ref="simpleBean"/>
    </bean>
</beans>
```

The same bean is later referred in the paragraph explaining the behaviour.

! The original (erroneous) paragraph is this:

The code and configuration snippets above provide all the necessary information so that the Spring container can create a bean of type `SimpleBeanImpl` and a bean named `simpleBean0` and then inject it into a bean of type `ComplexBeanImpl` named `complexBean`.

! And in future editions of the book, will be replaced with this: The code and configuration snippets above provide all the necessary information so that the Spring container can create a bean of type `SimpleBeanImpl` and a bean named `simpleBean` and then inject it into a bean of type `ComplexBeanImpl` named `complexBean`.

Other small typos and mishaps.

Page	Original	Correction
43	Equivalent to <code>list.add(new SimpleBeanImpl).</code>	Equivalent to <code>list.add(new SimpleBeanImpl()).</code>
63	<code>for (String name : ctx.getAliases("sb02/sb03")){ logger.info ("Alias for sb04 ->" + name); }</code>	<code>for (String name : ctx.getAliases("sb02/sb03")){ logger.info ("Alias for sb02/sb03" ->" + name); }</code>
66	<code>INFO c.p.ApplicationContextTest - >> bye bye.</code>	Leftover log entry from code that was removed from the book.
70	The init method must return void, have no arguments defined, and can have any access right...	The init method must should return void, because if a value is returned, it is ignored by the container, must have no arguments defined, and can have any access right...
72	The <code>InstantiatingBean</code> interface...	The InitializingBean interface...
74	... because the base-package1 because the base-package ...
75	The methods that can be annotated with <code>@PostConstruct</code> must respect the same rules as every other init method: they must have no arguments, return void, and they can have any access right.	The methods that can be annotated with <code>@PostConstruct</code> must respect the same rules as every other init method: they must have no arguments, return any type (preferably void, because the returned value is ignored by the container anyway), and they can have any access right.
80	The destroy method must return void.	The destroy method can return any type, but as the container ignores the returned value, void is recommended.
108	<code>@Cofiguration</code> (in "Stereotypes annotations" list)	<code>@Configuration</code> (in "Stereotypes annotations" list)

Table B.1: Corrections Table (part 1)

In **page 76** the developer is invited to do a practice exercise and add an initialisation method called `initMethod2` and check to see how the log will change. The log printed afterwards assumes that the initialisation methods print the exact name of the "stage" they are executed in and thus the declaration of the `ComplexBean` in page 75 should be modified as follows (only the initialisation methods are depicted):

```
<beans ...">
  <bean id="simpleBean1" class="com.ps.sample.SimpleBean"/>
  <bean id="simpleBean2" class="com.ps.sample.SimpleBean"/>

  <bean id="complexBean" class="com.ps.sample.ComplexBean"
    c:_0-ref="simpleBean1"
    p:simpleBean2-ref="simpleBean2"
    init-method="initMethod2"
    destroy-method="destroyMethod"/>
  <context:component-scan base-package="com.ps.sample"/>
</beans>
```

```
//com.ps.sample.ComplexBean.java
public class ComplexBean {
```

```

...
private void initMethod2() {
    logger.info(" --> Stage 4: Calling the initMethod2.");
}

@PostConstruct
private void initMethod() {
    logger.info(" --> Stage 3: Calling the initMethod.");
    long ct = System.currentTimeMillis();
    if (ct % 2 == 0) {
        simpleBean2 = new SimpleBean();
    }
}
...
}

```

(Observation submitted by Süleyman Onur)

In **page 90** a configuration file is depicted that is confusing for some developers, because contains two configurations versions separated only by a comment.

```

<?xml version="1.0" encoding="UTF-8"?>
<beans ...>
    <!-- does not pickup @Configuration so the configuration
           class must be declared as a bean-->
    <context:annotation-config/>
    <bean class="com.ps.config.DataSourceConfig" />

    ~fvtextcolorred<!-- or the more practical way -->
    <!-- Picks up everything-->
    <context:component-scan base-package="com.ps.config"/>

</beans>

```

To make things clearer, in the following configuration snippet, two equivalent configurations file are depicted.

```

<!-- config-01.xml -->
<?xml version="1.0" encoding="UTF-8"?>
<beans ...>
    <!-- does not pickup @Configuration so the configuration
           class must be declared as a bean-->
    <context:annotation-config/>
    <bean class="com.ps.config.DataSourceConfig" />\
</beans>

<!-- config-02.xml -->
<?xml version="1.0" encoding="UTF-8"?>
<beans ...>

    <!-- Picks up everything-->
    <context:component-scan base-package="com.ps.config"/>

</beans>

```

(Observation submitted by Süleyman Onur)

In section **Using Multiple Sources of Configuration**, page 94, in class `BootstrapTest` the context declaration is not quite correct. Because class `RequestRepoConfig` is annotated with `@Import (DataSourceConfig.class)`, specifying the `DataSourceConfig.class` as argument when creating the context is not really necessary and redundant. So the `setUp()` method should be modified to:

```
ApplicationContext ctx = new
    AnnotationConfigApplicationContext (RequestRepoConfig.class);
```

(Observation submitted by Süleyman Onur)

In the section **Bean Naming section**, page 94, there is a huge error in the samples for `@AliasFor`. It was implied there that the value attribute of the `@Repository` can be aliased. At the time when the book was written, Spring 4.2 was under development and more information about the limits of the `@AliasFor` were published later on. Because autowiring by type was used, the tests still passed thus hiding the erroneous implementation. So there is a code sample and some text there which are erroneous, and should be skipped altogether.

! The original (erroneous) section is this:

And even more can be done. Aliases for meta-annotation attributes can be declared. Let's say that we do not like the value attribute name of the `@Repository` annotation and we want in our application to make it more obvious that the `@Repository` annotation can be used to set the id of a bean, by adding an id attribute that will be an alias for the value attribute. The only conditions for this to work are that the annotation declaring the alias has to be annotated with the meta-annotation, and the annotation attribute must reference the meta-annotation.

```
package com.ps.sample;
import org.springframework.core.annotation.AliasFor;

@Repository
public @interface MyRepoCfg {
    @AliasFor(annotation = Repository.class, attribute = "value")
    String id() default "";
}
}
```

Thus, the repository beans can be declared as depicted in the following code snippet:

```
...
import com.ps.MyRepoCfg;
...

//JdbcRequestRepo. java bean definition
@MyRepoCfg(id = "requestRepo")
public class JdbcRequestRepo extends JdbcAbstractRepo<Request>
implements RequestRepo{
    ...
}
```

! And in future editions of the book, will be replaced with this:

And even more can be done. Aliases for meta-annotation attributes can be declared. Let's say that we do not like the `lTout` attribute name of the `@DsCfg` annotation and we just want to refer to it differently. The only conditions for this to work are that the annotation declaring the alias has to be annotated with the meta-annotation, and the annotation attribute must reference the meta-annotation.

```
package com.ps;
import org.springframework.core.annotation.AliasFor;
@DsCfg
```

```
public @interface MyDsCfg {
    @AliasFor(annotation = DsCfg.class, attribute = "lTout")
    int timeout() default 200;
}
```

Thus, we can now apply the new annotation on the repository beans, that can be declared as depicted in the following code snippet:

```
...
import com.ps.MyDsCfg;
...
//JdbcRequestRepo. java bean definition
@MyDsCfg(timeout = 2400)
@Repository
public class JdbcRequestRepo extends JdbcAbstractRepo<Request>
    implements RequestRepo{
    ...
}
```

! `@AliasFor` cannot be used on any stereotype annotations. The reason is that the special handling of these value attributes was in place years before `@AliasFor` was invented. Consequently, due to backward compatibility issues it is simply not possible to use `@AliasFor` with such value attributes. When writing code to do just so (aliasing value attributes in stereotype annotations), no compile errors will be shown to you, and the code might even run, but any argument provided for the alias will be ignored. the same goes for the `@Qualifier` annotation as well.

This information about the `@AliasFor` annotation can be found here: <https://github.com/spring-projects/springframework/wiki/Spring-Annotation-Programming-Model#1-can-aliasfor-be-used-with-the-value-attributes-for-componentand-qualifier>.¹

The sources has also been updated on the raw repository: <https://github.com/iuliana/pet-sitter>

¹The URL does not fit the page, but for electronic use the clickable URL is this: [FAQ @AliasFor](#)

Other small typos and mishaps.

Page	Original	Correction
103	The @Autowired annotation by default requires the dependency to be mandatory, but this behavior can be changed, by setting the required attribute to <code>true</code> :	The @Autowired annotation by default requires the dependency to be mandatory, but this behavior can be changed, by setting the required attribute to false :
105	Table 2-3. <i>Prefixes and corresponding paths</i>	Table 2-3. Spring and JSR 250 annotation equivalents
144	When classes are annotated with this anclasses become...	When classes are annotated with this annotation , classes become
145	<pre>public DataSource dataSource() throws SQLException {</pre>	<pre>public DataSource dataSource() throws SQLException {</pre>

Table B.2: Corrections Table (part 2)

Also in section **2.1 Quick quiz**, question 8, the annotation @Autowired is missing from the setter in option **B**.
! The corrected option looks like this:

```
@Component
public class QuizBean {

    @Autowired
    public void setPetitBean(PetitBean petitBean) {
        this.petitBean = petitBean;
    }

    @PostConstruct
    private void initMethod() {
        logger.info("--> I'm calling it bean soon");
    }
}
```

(Submitted by Peter Jurkovic)

Chapter 4: Aspect Oriented Programming with Spring

Page	Original	Correction
160	import org.aspectj. lang.annotation.Component; import org.aspectj. lang.annotation.Aspect; import underlineorg.aspectj. lang.annotation.Before;	import org.springframework.stereotype.Component; import org.aspectj. lang.annotation.Aspect; import org.aspectj.lang.annotation.Before;
165	pointcut="execution(public com.ps.repos .'JdbcTemplateUserRepo+ .findById(..))"	pointcut="execution(public * com.ps.repos.* .JdbcTemplateUserRepo+ .findById(..))"
166	public * com.ps.repos .*.JdbcTemplateUserRepo+ .findById(..)) && +underlinewithin(com.ps.*)	public * com.ps.repos .*.JdbcTemplateUserRepo+ .findById(..)) && within(com.ps.*)
171 172	if (StringUtils.indexOfAny(pass, new String[]{"\$", "#", "\$", "%"}) != -1)	if (StringUtils.indexOfAny(pass, new String[]{"\$", "#", "\$", "%"}) != -1)
182	execution(* update(Logn,..))	execution(* update(Long,..))

Table B.3: Corrections Table (part 3)

Chapter 5: Data Access

Page	Original	Correction
193	public JdbcTemplate jdbcTemplate()	public JdbcTemplate jdbcTemplate()
205	new Object{username}, rowMapper));	new Object[]{username}, rowMapper));
211	Figure 5.8 Bad caption: Created by a EntityManagerFactoryBean	Figure 5.8 Correct caption: Created by a FactoryBean<EntityManagerFactory>
225	The @Transactiona annotation...	The @Transaction annotation...
227	<tx:advice id= "transactionalAdvice"> <tx:atributes>	<tx:advice id= "transactionalAdvice"> <tx:attributes>
241	List<Users> list = session .createQuery("from User u where username= ?")	List<Users> list = session() .createQuery("from User u where username= ?") .setParameter(0, username).list();
249	public class TestDataConfig {@Bean...	public class TestDataConfig { ...
263	Every RepoMongoRepositorysitory inter- face...	Every MongoRepository interface...

Table B.4: Corrections Table (part 4)

In page 220, in the nested transaction example, there is a message in the log that needs more explaining

Not actually nested. That message is necessary because the current version of H2 when this book is being written does not support nested transactions.

In page 222 there is a code snippet used as example for the `rollbackFor` attribute that is not correct.

! The original (erroneous) snippet is this:

```
@Transactional(rollbackFor = MailSendingException.class)
@Override
public int updatePassword(Long userId, String newPass)
    throws MailSendingException {
    User u = userRepo.findById(userId);
    String email = u.getEmail();
    sendEmail(email);
    return userRepo.updatePassword(userId, newPass);
}
```

! The problem with this code snippet is that the exception is thrown before calling `userRepo.updatePassword(..)` to execute the actual operation that we are interested in. And in future editions of the book, will be replaced with this:

```
@Transactional(rollbackFor = MailSendingException.class)
@Override
public int updatePassword(Long userId, String newPass)
    throws MailSendingException {
    User u = userRepo.findById(userId);
    String email = u.getEmail();
    int result = userRepo.updatePassword(userId, newPass);
    sendEmail(email);
    return result;
}
```

Same goes for the example in section **Spring Programmatic Transaction Model**, page 233, where the code below:

```
try {
    User user = userRepo.findById(userId);
    String email = user.getEmail();
    sendEmail(email);
    return userRepo.updatePassword(userId, newPass);
} catch (MailSendingException e) {
    status.setRollbackOnly();
}
```

Should be replaced with:

```
try {
    int result = userRepo.updatePassword(userId, newPass);
    User user = userRepo.findById(userId);
    String email = user.getEmail();
    sendEmail(email);
    return result;
} catch (MailSendingException e) {
    status.setRollbackOnly();
}
```


In page 267 question 10, the quiz solution reads A,B,D,E,F. But one of the interfaces in the answer is never mentioned in the book: `TransactionDefinition`. (*Observation by Patrick Dobner*) Thus we are compensating for that here. The **Spring Programmatic Transaction Model** section is missing the following paragraphs and code samples.

Another way of using transactions programmatically is to use the transaction manager directly. Spring's abstract transaction management unit is the `PlatformTransactionManager` interface. Regardless of the transaction manager framework provider used in an application a bean of type implementing `PlatformTransactionManager` can be injected and used directly. This interface defines three methods depicted in the code snippet below:

```
package org.springframework.transaction;

public interface PlatformTransactionManager {
    TransactionStatus getTransaction(TransactionDefinition definition)
        throws TransactionException;

    void commit(TransactionStatus status) throws TransactionException;

    void rollback(TransactionStatus status) throws TransactionException;
}
```

The `getTransaction(..)` returns a currently active transaction or creates and returns a new one, all depending on the transaction manager configuration. The parameter of type `TransactionDefinition` encapsulates transaction properties like isolation level, propagation behaviour, timeout, etc. It returns an object representing a transaction status of type implementing Spring's `TransactionStatus` interface. This object is used by the transaction manager to modify the transaction object.

The `commit(..)` and `rollback(...)` methods purpose is obvious because of their naming, they are the methods used by the transaction manager to change transaction status, depending on the success or failure of a transaction.

The code snippet below depicts the previous code sample, written by using the transaction manager bean directly. As you can see the `PlatformTransactionManager` is autowired by Spring and can be used to commit or rollback a transaction.

```
package com.ps.services.impl;

...
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.transaction.PlatformTransactionManager;
import org.springframework.transaction.TransactionDefinition;
import org.springframework.transaction.TransactionStatus;
import org.springframework.transaction.support.DefaultTransactionDefinition;
import javax.sql.DataSource;

@Service("programaticUserService2")
public class ProgramaticUserService2 implements UserService {

    private JdbcTemplate jdbcTemplate;
    private PlatformTransactionManager transactionManager;

    @Autowired
    public ProgramaticUserService2(DataSource dataSource,
        PlatformTransactionManager txManager) {
        this.transactionManager = txManager;
        this.jdbcTemplate = new JdbcTemplate(dataSource);
    }
}
```

```

    }

    @Override
    public int updatePassword(Long userId, String newPass)
        throws MailSendingException {
        TransactionDefinition def = new DefaultTransactionDefinition();
        TransactionStatus status = transactionManager.getTransaction(def);

        String sql = "update P_USER set PASSWORD=? where ID = ?";
        int result;
        try {
            result = jdbcTemplate.update(sql, new Object[]{newPass, userId});

            sql = "select u.ID as ID, u.USERNAME as USERNAME," +
                " u.USER_TYPE as USER_TYPE," +
                " u.EMAIL as EMAIL, u.PASSWORD as PASSWORD" +
                " from P_USER u where u.ID = ?";
            User user = jdbcTemplate.queryForObject(sql,
                new Object[]{userId}, new UserRowMapper());
            transactionManager.commit(status);
            String email = user.getEmail();
            sendEmail(email);
            return result;
        } catch (MailSendingException e) {
            status.setRollbackOnly();
        } catch (Exception e) {
            // do rollback for any exception except MailSendingException
            transactionManager.rollback(status);
            throw e;
        }
        return 0;
    }
    ...
}

```

Chapter 6: Spring Web

In page 290, in the depiction of the `WebInitializer` class, all `[]` are missing, all because of a formatting issue. The correct version of the class, is contained in the sample code attached to the book, nevertheless I will add here the correct version of the class.

```

package com.ps.config;

import org.springframework.web.servlet.support.
    AbstractAnnotationConfigDispatcherServletInitializer;
...
public class WebInitializer extends
    AbstractAnnotationConfigDispatcherServletInitializer {
    @Override
    protected Class<?>[] getRootConfigClasses() {
        return new Class<?>[]{
            ServiceConfig.class
        };
    }
}

```

```

    }

    @Override
    protected Class<?>[] getServletConfigClasses() {
        return new Class<?>[]{
            WebConfig.class
        };
    }

    @Override
    protected String[] getServletMappings() {
        return new String[]{"/*"};
    }

    @Override
    protected Filter[] getServletFilters() {
        CharacterEncodingFilter cef = new CharacterEncodingFilter();
        cef.setEncoding("UTF-8");
        cef.setForceEncoding(true);
        return new Filter[]{new HiddenHttpMethodFilter(), cef};
    }
}

```

Page	Original	Correction
304	Table 6-2. Spring Security chained filters	Table 6-2. Spring Security chained filters and their positions
304	<pre> @Override protected void configure (HttpSecurity http) throws Exception { http.addFilterAfter(SecurityContextPersistenceFilter.class, customConcurrencyFilter()); </pre>	<pre> @Override protected void configure (HttpSecurity http) throws Exception { http.addFilterAfter(customConcurrencyFilter(), SecurityContextPersistenceFilter.class); </pre>
311	<!-- spring-config.xml -->	<!-- security-config.xml -->
316	Table 6-3. Spring Security chained filters	Table 6-2. CSRFTokenRepository Spring Implementations
318	Override protected void configure	@Override protected void configure
326	In table 6-4, <i>jane does</i>	should be jane doe
331 335 342	[] are missing, all because of a formatting issue	should be: <pre> String[] beanNames = ctx.getBeanDefinitionNames(); </pre>
338	<pre> Server: port: 9000 </pre>	<pre> server: port: 9000 </pre>
338	<pre> app: port: 8084 </pre>	<pre> app: port: 9000 </pre>

Table B.5: Corrections Table (part 5)

Chapter 7: Spring Advanced Topics

In page **401**, **Table 7-4** has a wrong caption and a wrong entry for the GET method. And in page **405** the

HTTP Method	@RequestMapping	Spring 4.3 Annotation
GET	@RequestMapping(method=RequestMethod.GET)	@GetMapping
POST	@RequestMapping(method=RequestMethod.POST)	@PostMapping
DELETE	@RequestMapping(method=RequestMethod.DELETE)	@DeleteMapping
PUT	@RequestMapping(method=RequestMethod.PUT)	@PutMapping

Table B.6: HTTP Methods Spring annotations

WebConfig class is missing the @ from the @Configuration annotation.

Chapter 8: Spring Microservices with Spring Cloud

Page	Original	Correction
446	<pre># Discovery Server Access eureka: client: registerWithEureka: false fetchRegistry: true ...</pre>	<pre># Discovery Server Access for pets-service eureka: client: registerWithEureka: <u>true</u> fetchRegistry: <u>false</u></pre>
450	<pre>\${ipAddress}:\${spring.application.name} :\${server.port}}</pre>	<pre>\${ipAddress}:\${spring.application.name} :\${server.port}</pre>
456	This is a Spring Boot annotation that "under the hood" configures a LocalContainerEntityManagerFactoryBean and sets the packagestoScan property ...	This is a Spring Boot annotation that "under the hood" configures a LocalContainerEntityManagerFactoryBean and sets the packagesToScan property ...

Table B.7: Corrections Table (part 6)

Appendix A

In the Appendix A, the quiz solution section for Chapter 2, at editing, the numbering of the answers was misplaced, so the number of the questions and the answers, do not fit. There are also small errors in the answers to questions 4 and 8. The full list of answers with proper numbering and corrections is depicted below:

Quiz Solution for Chapter 2

1. **Answer:** A, B, C
2. **Answer:** B
3. **Answer:** A, B,D (C, Interface-based injection is not supported in Spring. D, field-based injection is supported by annotating fields with @Autowired, @Value or related annotations; JSR-250 @Resource, JSR-330

@Inject.²)

4. **Answer:**

Original: *Answer: A, B, C (As stated in Chapter 2)*

Correct: **A** (ClassPathXmlApplicationContext is a simple convenience ApplicationContext implementation that can be used to load the definitions from the given XML files and automatically refreshing the context.)

5. **Answer:**

Original: B (Only @Component is contained in the org.springframework.stereotype package)

Correct: **A (Only @Component is contained in the org.springframework.stereotype package)** (The comment pointed to the correct answer, the letter was incorrect. Many thanks to Tobias Hochgürtel for noticing this.)

Clarification: Many readers have submitted questions about this answer asking why @Configuration is not considered a stereotype annotation. According to the Spring Reference Documentation we could consider that @Configuration is a marker for any class that fulfills the role or stereotype of a configuration class. But it is not explicitly mentioned as such in the documentation <https://docs.spring.io/spring/docs/4.3.x/spring-framework-reference/htmlsingle/#beans-stereotype-annotations>. Any new annotation using @Component is not necessary automatically a new stereotype. Sure, @ComponentScan is able to detect it according a technical perspective because it has @Component, but semantically would has no sense, because a bean of type configuration will rarely be used for anything else than bean declaration.

Thus, @Configuration is in the edge in some way. It can be considered a kind of stereotype, but only for infrastructure.

6. **Answer:** A

7. **Answer:** C

8. **Answer:**

Original: *Answer: A,B,C*

Correct: **A, B.**

C is not a good answer, because of the p:petitBean definition. The quizBean has a dependency on the petitBean bean, thus a reference to it is needed. The equivalent bean definition, that would have made the original answer correct is:

```
<bean id="quizBean" class="QuizBean"
      init-method="initMethod" p:petitBean-ref="petitBean" />
```

9. **Answer:** B (CommonAnnotationBeanPostProcessor modifies beans)

10. **Answer:** C

11. **Answer:** B

12. **Answer:** A

Quiz Solution for Chapter 4 In the Appendix A, the quiz solution section for Chapter 4, for unknown reasons,

the answer for Question 8 contains a mistake. (*Reported by Patrick Dobner*)

Original: *Answer: A, B*

Correct: **B** (an expression to identify methods to which the advice applies to), **C** (a predicate used to identify join points)

Sample Exam

²Spring Framework Reference: <http://docs.spring.io/spring/docs/4.2.3.RELEASE/spring-framework-reference/htmlsingle/#beans-annotation-config>

Question 1 has a (choose one) after the question content, which is confusing as the answer is made of more than one option. (*Reported by Tibor Kalman*)

Original: Which of the following affirmations is false? (choose one)

Correct: Which of the following affirmations is false?

Question 3 has an incorrect numbering of the answers.

Original:

Are the following two bean declaration equivalent?

A. (1)

```
<bean id="someBean" p:someValue-ref="someOtherBean" />
```

(2)

```
@Component("someBean")
public class SomeBean {
    private SomeBean someValue;

    @Autowired
    @Qualifier("someOtherBean")
    public setSomeValue(SomeBean arg){
        this.someValue = arg;
    }
}
```

yes

B. no

C. the second is not a valid bean definition

Correct: Are the following two bean declarations equivalent?

(1)

```
<bean id="someBean" p:someValue-ref="someOtherBean" />
```

(2)

```
@Component("someBean")
public class SomeBean {
    private SomeBean someValue;

    @Autowired
    @Qualifier("someOtherBean")
    public setSomeValue(SomeBean arg){
        this.someValue = arg;
    }
}
```

A. yes

B. no

C. the second is not a valid bean definition

Sample exam, Answers

Question 50 has a typo.

Original: option **B**: implement `disposableBean`

Correct: option **B**: implement `DisposableBean`

In the Answers section, the answer for question 30 is wrong.

Original: 30. A

Correct: **30. B**

B.2 Code updates and observations

In the 1.4.1 version of the Gretty plugin the `port` property was renamed to `httpPort`. Thus, old Gradle configurations like the one depicted below will cause a build failure.

```
gretty {  
    port = 8080  
    contextPath = '/mvc-layout'  
}
```

The configuration must be corrected and the `port` property must be replaced with `httpPort`

```
gretty {  
    httpPort = 8080  
    contextPath = '/mvc-layout'  
}
```

In case you want more information, or keep track of the issue I created related to this, take a look on the Gretty plugin GitHub page: <https://github.com/akhikh1/gretty>

Most small typos and formatting corrections were submitted by *Marco Pelucchi*. Thank you kind sir for using your attention to detail to make this book better!