

Q33 - Annotation and Declarative Servlets Definition [2]

Considering the following Servlet code and the Deployment Descriptor snippet, choose the statements which are true:

```
package com.nullhaus;

import javax.servlet.annotation.*;
import javax.servlet.http.*;

@WebServlet(urlPatterns={"/foo/*"}, name="NullHaus1")
public class NullHausServlet extends HttpServlet {
}

<servlet>
  <servlet-class>com.nullhaus.NullHausServlet</servlet-class>
  <servlet-name>NullHaus2</servlet-name>
</servlet>

<servlet-mapping>
  <servlet-name>NullHaus2</servlet-name>
  <url-pattern>/baz/*</url-pattern>
</servlet-mapping>
```

- a. There will be exactly one instance of the `NullHausServlet`
- b. There will be exactly two instances of the `NullHausServlet`
- c. There will be at least two instances of the `NullHausServlet`
- d. There will be at most two instances of the `NullHausServlet`
- e. There will be a runtime exception thrown and NullHaus1 and NullHaus2 will not be operational

Hide answer

c

Reference: page 62, 8.1.1 "@WebServlet"

Explanation: When the same servlet class is defined in the DD with another name, **the container is forced to create a new instance of the servlet class**.

However, **the exact number of servlet instances is undefined**, as each container may decide what policy it will follow, as some kind of servlet-pools are allowed to be present.