

Q13 - Number of Filter Instances [4]

Consider the following Deployment Descriptor code snippet:

```
<filter>
  <filter-name>NullFilter 1</filter-name>
  <filter-class>com.nullhaus.NullFilter</filter-class>
</filter>
```

and the following Filter code:

```
package com.nullhaus;

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

@WebFilter("/*")
public class NullFilter implements Filter {
    // necessary methods goes here
}
```

Knowing that above DD snippet is the only filter-related part, how many filter instances will be created by the Servlet container?

- a. 1
- b. 2
- c. Deployment Descriptor is invalid and the runtime exception will be thrown

Hide answer

b

Reference: page 63, 8.1.2 "@WebFilter"

Explanation: The default `@WebFilter` name (if not defined through the `filterName` attribute of the annotation) is **fully qualified class name** (`com.nullhaus.NullFilter` in this case). Therefore, there are two **differently named filters** which refers to the same class.