

Q17 - Filter Dispatching

Consider the following Filter code:

```
package com.nullhaus;

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

@WebFilter(servletNames = {"*"}, filterName="NullHaus Filter", dispatcherTypes = {DispatcherType.INCLUDE})
public class NullFilter implements Filter {
    // necessary methods goes here
}
```

Assuming that there aren't any filter-related parts in the DD, which statements are true:

- a. The "NullHaus Filter" will be accessed only if the `RequestDispatcher#include(-)` method is invoked from a `RequestDispatcher` obtained by name
- b. The "NullHaus Filter" will be accessed only if the `RequestDispatcher#include(-)` method is invoked from a `RequestDispatcher` obtained by path
- c. The "NullHaus Filter" will be accessed if the `RequestDispatcher#include(-)` method is invoked from a `RequestDispatcher` obtained either by name or path
- d. The "*" is not a valid `servletNames` attribute value and a runtime exception will be thrown.
- e. The above filter annotation is functionally equal to the below DD part:

```
<filter>
  <filter-name>NullHaus Filter</filter-name>
  <filter-class>com.nullhaus.NullFilter</filter-class>
</filter>
<filter-mapping>
  <filter-name>NullHaus Filter</filter-name>
  <servlet-name>*</servlet-name>
  <dispatcher>INCLUDE</dispatcher>
</filter-mapping>
```

Hide answer

c, e

Reference: page 53, 6.2.5 "Filters and RequestDispatcher"

Explanation: The special filter name `"*"` has been introduced to express that the request match **either by the path or the servlet name** should be passed to this filter. It is a valid value of the `<servlet-name>` element and `servletNames` attribute.