

Q61 - Asynchronous Processing in Servlets [6]

Considering the following Asynchronous Servlets code, choose which statements are true after a GET request to the NullServlet2 is made:

com.nullhaus.NullServlet

```
package com.nullhaus;

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

@WebServlet(urlPatterns = "/foo/*", name = "NullServlet", asyncSupported = true)
public class NullServlet extends HttpServlet {
    public void doGet(HttpServletRequest req, HttpServletResponse resp) throws IOException {

        resp.getWriter().println("Howdy from NullServlet1!");

        final AsyncContext ac = req.startAsync();

        ac.start(new Runnable() {
            public void run() {
                System.out.println("Async!");
                ac.complete();
            }
        });
    }
}
```

com.nullhaus.NullServlet2

```
package com.nullhaus;

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

@WebServlet(urlPatterns = "/baz/*", name="NullServlet2", asyncSupported=false)
public class NullServlet2 extends HttpServlet {
    public void doGet(HttpServletRequest req, HttpServletResponse resp) throws IOException, ServletException {

        resp.getWriter().println("Howdy from NullServlet2!");

        req.getRequestDispatcher("/foo").forward(req, resp);
    }
}
```

- This code compiles
- The "Howdy from NullServlet2" will be included in the response
- The "Howdy from NullServlet1" will be included in the response
- The "Async!" will be included in the response
- A runtime exception will be thrown when accessing this servlet

f. This code doesn't compile

Hide answer

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Reference: pages 11, 2.3.3.3 "Asynchronous processing"

Explanation: Refer to the previous question's explanation; this code explicitly uses the asynchronous features, so the `IllegalStateException` will be thrown.