

HW - Request/Response Headers & Status Codes

1. Write a servlet that sends the first 2 (two) requests it receives to www.google.com and the next 2 (two) requests it receives to www.yahoo.com, and so on. *This behavior has to be guaranteed. Remember that you are in a multi-threaded environment where many users can be accessing your servlet simultaneously.*
Also, it is OK if the count gets reset when the server restarts.
2. You are making a website for your company. You want to display some exciting news about your company daily and you want to prevent your customers from directly accessing other pages on your website (even if the customers have bookmarked those pages before) without seeing your company's wonderful daily news.

Create two web pages. The first (Page A) should contain some exciting news about your imaginary company (make something up) and a link to the second page (Page B). If a user accesses Page A and then follows the link to Page B – Page B is displayed to the user as expected. On the other hand, if the user directly types in the address of Page B (or follows a link to Page B from a page other than Page A, i.e., Page C – provide this link on your homework home page, i.e., the homepage of your homework becomes that Page C), he should get sent back to Page A automatically.

3. It's very popular for developers to blame Microsoft for everything that goes wrong in their code. So much so that even non-technical users sometimes have a general impression that were it not for Microsoft products, all of their applications would work 100% even if the applications have nothing to do with Microsoft. Let's not waste a perfectly acceptable excuse then! ☺

Create an HTML page that asks the user to submit information of your choosing. Create a servlet that the form would submit to. Keep a running total of people submitting with IE vs. other browsers, remembering that you are in a multi-threaded environment. If the user used IE to submit the form, the servlet should make the server output an **internal server error** with the message: "IE has crashed! Use Firefox next time! 5 people have accessed this website with IE so far". If the user used any other browser, the servlet should force the server to output some **status** together with the message "You are using a non IE browser. 3 people have accessed this website with a non-IE browser so far".

See the API for which method is most appropriate and make sure to send the right status code. Also, if you do not have access to a Windows environment to test your code with IE (gasp! ☺), just substitute Chrome browser instead of IE. However, please clearly state this on the front page of your PDF submission as well as home page for the homework so the grader knows this information.