50.005 NS Quiz 4 (mock quiz; suggested time: 15 mins)  Name: Student ID:
Note: This is a mock quiz that won't be graded, and you don't have to submit it formally. It is suggested, however, that you attempt it like a real quiz.
1. If a Web server is to support N simultaneous HTTP connections, each from a different clien browser, how many sockets will the Web server need to open during its whole execution?
2. Suppose a Web browser visits an HTML page with four embedded JPEG objects. At least how many RTTs are needed for the full page to load assuming (i) non-persistent HTTP with the browser configured for three parallel connections, and (ii) persistent HTTP (over a TCF connection) without any pipelining. You can assume that all the HTML and JPEG objects are small so that you can ignore their transmission time. You can also ignore TCP close.
3. A Web client that has cached an object can use the HTTP
4. True or false: In HTTP/1.1 (persistent HTTP), multiple HTTP GET requests sent in a pipelined fashion over a TCP connection must complete in the same order in which they were sent.