**PA 1 – A Requirements**

NOTE: This is a properly formatted HTTP request line:  
  
 <METHOD> <URI> <HTTP VERSION>

Here are some examples:

GET http://www.cs.utah.edu/~kobus/simple.html HTTP/1.0

GET http://www.example.com:8080/path/index.html HTTP/1.0

GET http://www.example.com/index.html HTTP/1.0

GET http://www.example.com/ HTTP/1.0

GET http://www.example.com HTTP/1.0

GET https://274.135.16.91:8080/path/index.html HTTP/1.0

1. ~~If the request is for a valid HTTP 1.0 method other than GET (i.e. HEAD or POST), return a~~ [~~501 error~~](http://www.freesoft.org/CIE/RFC/1945/48.htm) ~~("Not Implemented")~~
2. ~~Return error code 400 when the method in the request line is not GET, HEAD, or POST~~
3. ~~Return error code 400 when the URI in the request lines is not~~ [~~absolute~~](http://www.freesoft.org/CIE/RFC/1945/28.htm)
4. ~~Return error code 505 when the version in the request line is not HTTP/1.0~~
5. ~~Check for properly formatted header lines:  
     
    <HEADER NAME>: <HEADER VALUE>~~
6. ~~Return error code 400 for improperly formatted headers~~
7. ~~Make sure there is a "Connection" header, and that its value is "close"~~
8. Follow all requirements when forwarding the GET request:  
   * ~~Forward to the specified port (default to 80 if no port specified). The port comes in the "Host" header after the hostname (and a colon).~~
   * ~~Forward in the relative format, for example:  
       
     GET /events HTTP/1.0  
     Host: www.bridgetjohansen.com  
     Connection: close  
     (Additional headers specified by client, if any)~~
9. ~~Return the response message as-is to the client~~
10. Make sure your program works:  
    * ~~From a command prompt on a CADE lab machine~~
    * By setting a proxy in Firefox! (You might need an older version so you can about:config it to only use HTTP 1.0.)
11. ~~Write a readme.txt that explains how to compile and run your program on a CADE lab machine~~

**PA 1 – B Requirements**

1. After a client request is accepted, spawn a thread to handle it