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Overview

You are to produce a program which will retrieve web pages and (a) display the contents of the page, (b) count the number of lines in the page, and (c) count the number of links in the page (anchor tags) as shown below:

```
python netprog.py
```

Enter Command: `dump http://www.dr-chuck.com/page1.htm`
Retrieving: http://www.dr-chuck.com/page1.htm
<h1>The First Page</h1>
If you like, you can switch to the

Enter Command: `links http://www.dr-chuck.com/page1.htm`
Retrieving: http://www.dr-chuck.com/page1.htm
Found 1 lines with links

Enter Command: `lines http://www.dr-chuck.com/page1.htm`
Retrieving: http://www.dr-chuck.com/page1.htm
Found 7 lines

Enter Command: `links http://www.umich.edu/`
Retrieving: http://www.umich.edu/
Found 190 lines with links

Enter Command: `lines http://www.umich.edu/`
Retrieving: http://www.umich.edu/
Found 355 lines

Please enter 'links' or 'lines' followed by a URL
Enter a Command:

You will be given a number of working code samples from the lectures. These can be used as sample code to get you started. You should not do any socket programming for this assignment (i.e. don't start with browser.py, browser2.py, http.py, sock1.py, or sock2.py).

You should start by making a copy of links2.py and then make changes to make to links2.py to get to this assignment.
Instead of reading in a URL and opening it, read in the command line and then split the command line into words. The first work (i.e. [0]) is the command and the second word is the url. All of the commands need to retrieve the data for the URL using returl and splitting it into lines.

Once the data is retrieved you can make a series of checks to see if the command is "dump", "lines", or links. Depending on the command, you can do a different loop through the retrieved lines to either print the lines out, count the lines, or search for lines that have href's in them.

You should recover from several error conditions:

$ python netprog.py
Enter Command: zap
Please enter 'links' or 'lines' followed by a URL
Enter Command: zap http://www.dr-chuck.com/
Retrieving: http://www.dr-chuck.com/
Please enter 'dump', 'links' or 'lines' followed by a URL
Enter Command: links http://www.98sd09ds09.com/
Retrieving: http://www.98sd09ds09.com/
Could not open document: http://www.98sd09ds09.com/
Enter Command:

Turn in

You should turn in a screen shot of your program demonstrating the basic features working and the source code to your program in CTools.