Web Server

**Due:** Tuesday, May 1st, 11:59pm

What will you be doing?

Creating a web-server in C that serves HTML pages and a few types of files found on the web.

You won’t test your program using a console!

- To test: you’ll open up a web browser (such as Firefox, Chrome, IE, it doesn’t matter) and connect to your program.
- You can also use wget to debug if IE / Firefox not working:
  - `wget --directory-prefix http://linux#.ews.illinois.edu`
MP8

- MP8 has you create a web server.

- In today’s programming example, we’ll create a web server that gets an HTTP request and prints that to the console.
  - Preliminary step for your MP 8.
Discussion Section Coding
Network Choices

- In main lecture, you have seen two different protocols:
  - TCP
  - UDP

  ...what are the differences?
  ...which one do we want to use for a web client?
Network Choices

- **In main lecture, you have seen two different roles:**
  - **Server:**
    - socket()
    - bind()
    - listen()
    - accept()
  - **Client:**
    - gethostbyname() / getaddinfo()
    - socket()
    - connect()
Programming!

- In the ds/ds11 directory, you’ll find 1.c.

- Goal:
  - Create a program to read HTTP request from a client and print that out.