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**CMPSCI 381 Lab 11**  
**Due Date: 4/21/2016**

**Honor Code:** *This work is my own unless otherwise cited.*

Output from the Server for the first time creating the cache file for  
cs.alleggheny.edu/sites/rroos/index.html HTTP/1.1

```
bonnettd@aldenv136: ~/cs381s2016/lab11
bonnettd@aldenv136:~/cs381s2016/lab11$ python lab_11.py
Server connected to ('127.0.0.1', 33122)
Server received GET http://cs.alleggheny.edu/sites/rroos/index.html HTTP/1.1

Requested host: cs.alleggheny.edu
Requested file: /sites/rroos/index.html
creating cache file cs.alleggheny.edu-slash-sites-slash-rroos-slash-index.html
requesting file /sites/rroos/index.html from cs.alleggheny.edu
sending /sites/rroos/index.html to ('127.0.0.1', 33122)
```

Output from the client for the same run:

```
bonnettd@aldenv136:~/cs381s2016/lab11$ telnet localhost 12345
Trying ::1...
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
GET http://cs.alleggheny.edu/sites/rroos/index.html HTTP/1.1
HTTP/1.1 200 OK
Date: Thu, 21 Apr 2016 03:44:54 GMT
Server: Apache/2.2.22 (Ubuntu)
Last-Modified: Fri, 22 Jan 2016 01:33:28 GMT
ETag: "1a2c2d-10fe-529e234c2a5bb"
Accept-Ranges: bytes
Content-Length: 4350
Vary: Accept-Encoding
Connection: close
Content-Type: text/html

<!DOCTYPE html>
<html class="full" lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <!--<meta name="description" content="">-->
  <!--<meta name="author" content="">-->

  <title>Bob Roos</title>

  ....many lines omitted
</html>
Connection closed by foreign host.
```

Output from the Server for the second time requesting the cache file for  
cs.alleggheny.edu/sites/rroos/index.html HTTP/1.1

```
bonnettd@aldenv136: ~/cs381s2016/lab11
bonnettd@aldenv136:~/cs381s2016/lab11$ python lab_11.py
Server connected to ('127.0.0.1', 33128)
Server received GET http://cs.alleggheny.edu/sites/rroos/index.html HTTP/1.1

Requested host: cs.alleggheny.edu
Requested file: /sites/rroos/index.html
Sending cache file cs.alleggheny.edu-slash-sites-slash-rroos-slash-index.html to
('127.0.0.1', 33128)
```

Output from the client for the same run:

```
bonnettd@aldenv136:~/cs381s2016/lab11$ telnet localhost 12345
Trying ::1...
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
GET http://cs.alleggheny.edu/sites/rroos/index.html HTTP/1.1
HTTP/1.1 200 OK
Date: Thu, 21 Apr 2016 03:55:25 GMT
Server: Apache/2.2.22 (Ubuntu)
Last-Modified: Fri, 22 Jan 2016 01:33:28 GMT
ETag: "1a2c2d-10fe-529e234c2a5bb"
Accept-Ranges: bytes
Content-Length: 4350
Vary: Accept-Encoding
Connection: close
Content-Type: text/html

<!DOCTYPE html>
<html class="full" lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <!--<meta name="description" content="">-->
  <!--<meta name="author" content="">-->

  <title>Bob Roos</title>
  ....Many lines omitted
</html>
Connection closed by foreign host.
```

Output from the Server for the first time creating the cache file for apple.com/iphone HTTP/1.1

```
bonnettd@aldenv136: ~/cs381s2016/lab11
bonnettd@aldenv136:~/cs381s2016/lab11$ python lab_11.py
Server connected to ('127.0.0.1', 33136)
Server received GET http://apple.com/iphone HTTP/1.1

Requested host: apple.com
Requested file: /iphone
creating cache file apple.com-slash-iphone
requesting file /iphone from apple.com
sending /iphone to ('127.0.0.1', 33136)
```

Output from the client for the same run:

```
bonnettd@aldenv136:~/cs381s2016/lab11$ telnet localhost 12345
Trying ::1...
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
GET http://apple.com/iphone HTTP/1.1
HTTP/1.1 301 Moved Permanently
Date: Thu, 21 Apr 2016 04:01:46 GMT
Server: Apache
Location: http://www.apple.com/iphone/
Cache-Control: max-age=600
Expires: Thu, 21 Apr 2016 04:11:46 GMT
Content-Length: 236
Keep-Alive: timeout=10, max=64
Connection: Keep-Alive
Content-Type: text/html; charset=iso-8859-1

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="http://www.apple.com/iphone/">here</a>.</p>
</body></html>
Connection closed by foreign host.
```

Output from the Server for the second time requesting the cache file for apple.com/iphone HTTP/1.1

```
bonnettd@aldenv136: ~/cs381s2016/lab11
bonnettd@aldenv136:~/cs381s2016/lab11$ python lab_11.py
Server connected to ('127.0.0.1', 33140)
Server received GET http://apple.com/iphone HTTP/1.1

Requested host: apple.com
Requested file: /iphone
Sending cache file apple.com-slash-iphone to ('127.0.0.1', 33140)
```

Output from the client for the same run:

```
bonnettd@aldenv136:~/cs381s2016/lab11$ telnet localhost 12345
Trying ::1...
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
GET http://apple.com/iphone HTTP/1.1
HTTP/1.1 301 Moved Permanently
Date: Thu, 21 Apr 2016 04:05:02 GMT
Server: Apache
Location: http://www.apple.com/iphone/
Cache-Control: max-age=600
Expires: Thu, 21 Apr 2016 04:15:02 GMT
Content-Length: 236
Keep-Alive: timeout=10, max=1
Connection: Keep-Alive
Content-Type: text/html; charset=iso-8859-1

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="http://www.apple.com/iphone/">here</a>.</p>
</body></html>
Connection closed by foreign host.
bonnettd@aldenv136:~/cs381s2016/lab11$
```