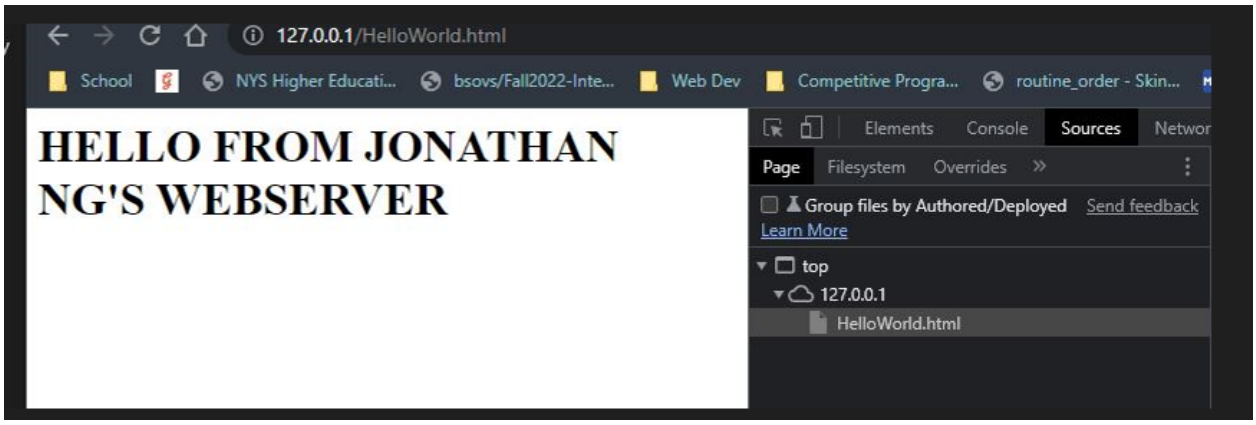
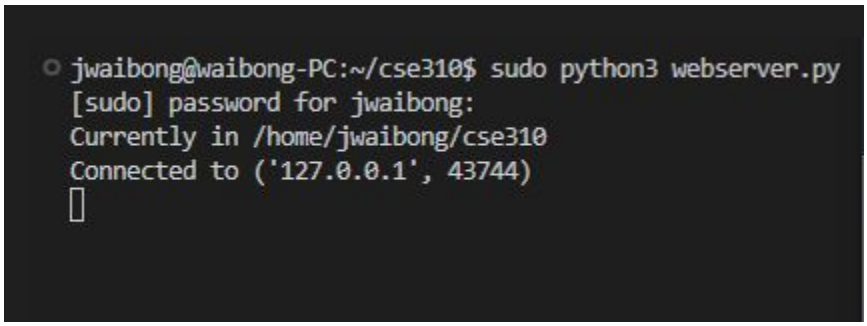
Jonathan Ng 113460607 CSE 310 Programming HW 1

PART A

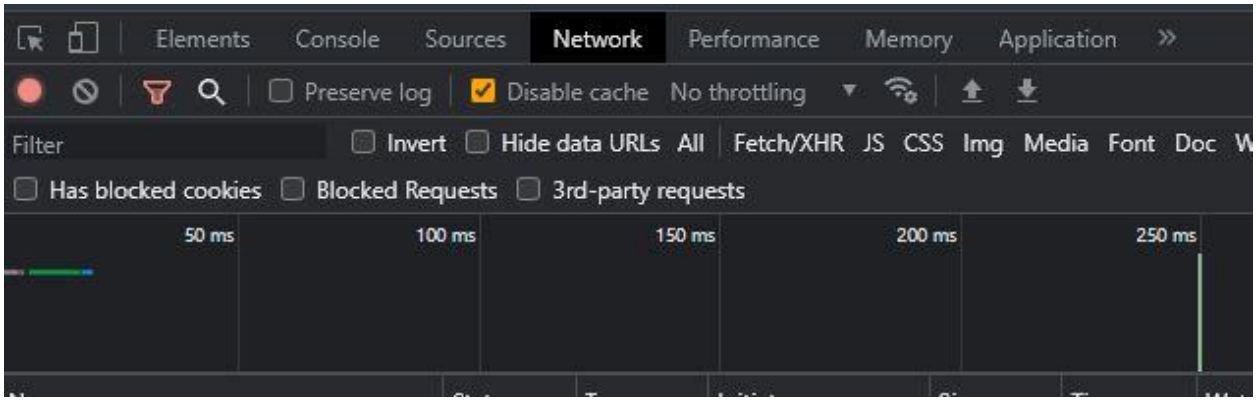
sudo python3 webserver.py





PART B

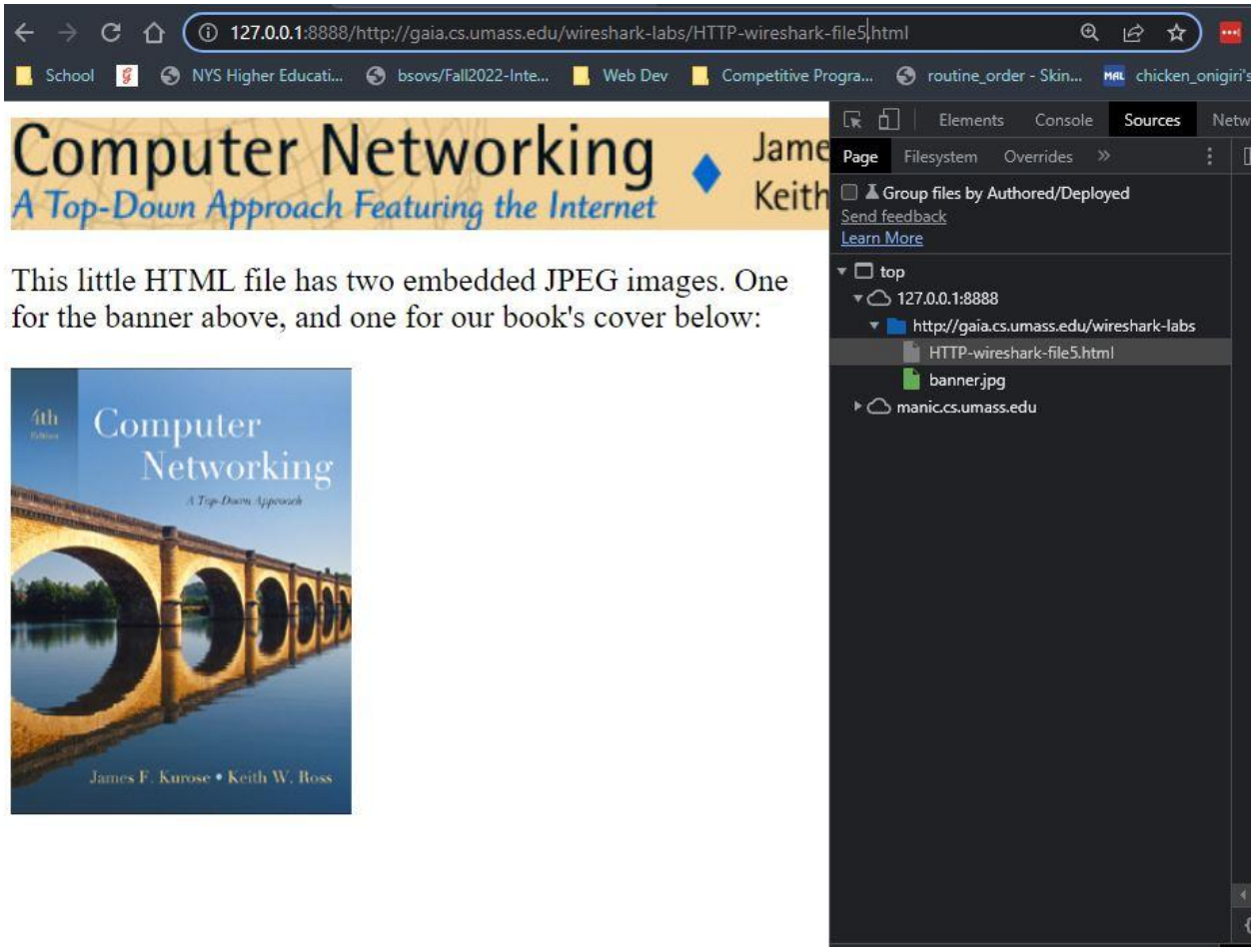
1) Disable Google Chrome cache in dev tools



2) sudo python3 proxyserver.py

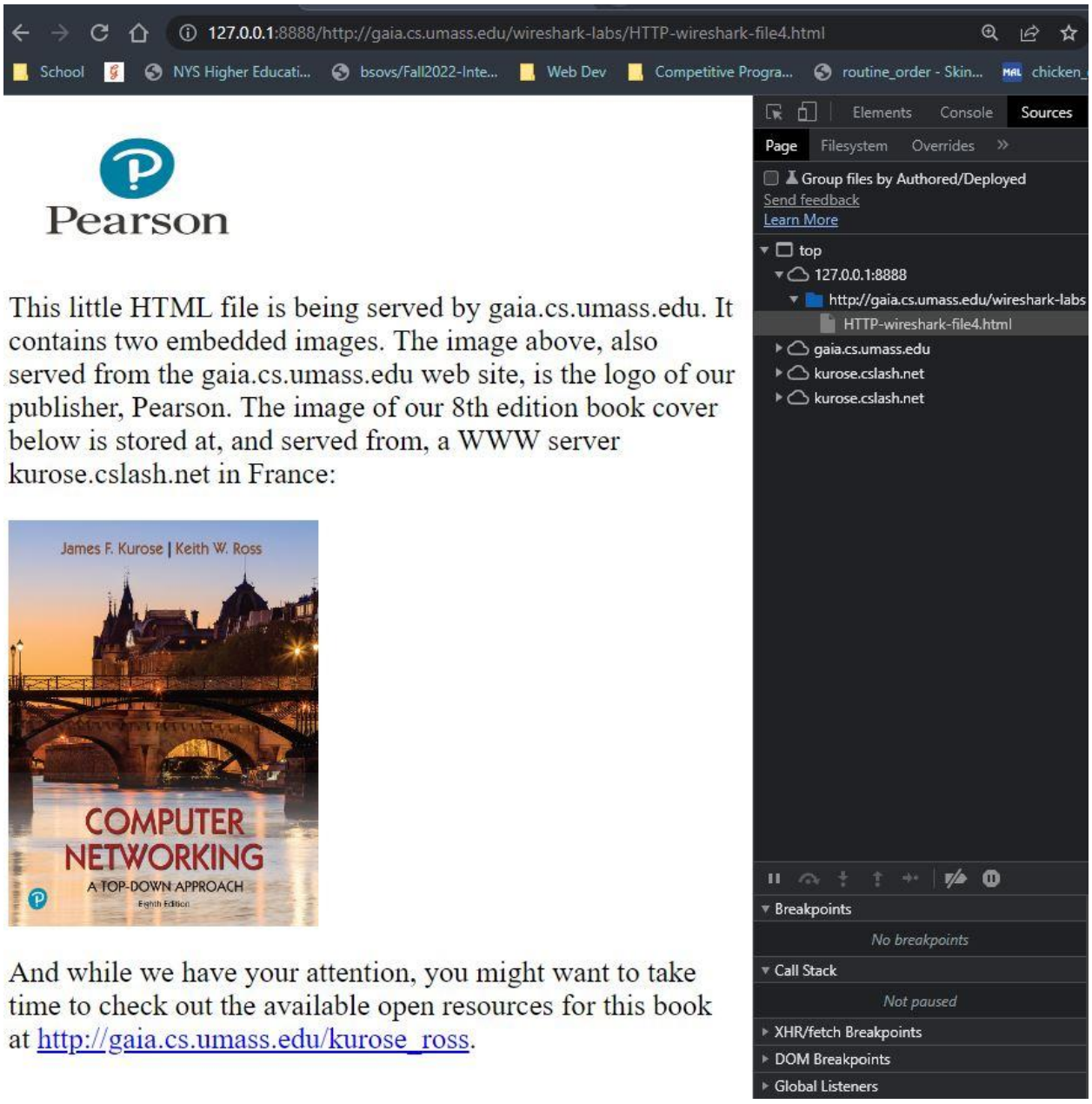
3) Request http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file5.html from proxy

```
jwaibong@waibong-PC:~/cse310$ sudo python3 proxyserver.py
Client Requested Resource Not Cached: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file5.html
Length 474: response received from gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file5.html
HTTP/1.1 200 OK
Date: Wed, 28 Sep 2022 21:55:41 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.30 mod_perl/2.0.11 Perl/v5.16.3
Last-Modified: Wed, 28 Sep 2022 05:59:01 GMT
ETag: "1da-5e9b6751c4394"
Accept-Ranges: bytes
Content-Length: 474
Content-Type: text/html; charset=UTF-8

Client Requested Resource Not Cached: gaia.cs.umass.edu/wireshark-labs/banner.jpg
Length 20439: response received from gaia.cs.umass.edu/wireshark-labs/banner.jpg
HTTP/1.1 200 OK
Date: Wed, 28 Sep 2022 21:55:41 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.30 mod_perl/2.0.11 Perl/v5.16.3
Last-Modified: Tue, 23 Sep 2003 03:24:33 GMT
ETag: "4fd7-3c7f6bcc45e40"
Accept-Ranges: bytes
Content-Length: 20439
Content-Type: image/jpeg
```


127.0.0.1:8888/http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file5.html
School
NYS Higher Educati...
bsovs/Fall2022-Inte...
Web Dev
Competitive Progra...
routine_order - Skin...
chicken_onigiri's
Computer Networking
A Top-Down Approach Featuring the Internet
Jame
Keith
Elements
Console
Sources
Netw
Page
Filesystem
Overrides
Group files by Authored/Deployed
Send feedback
Learn More
top
127.0.0.1:8888
http://gaia.cs.umass.edu/wireshark-labs
HTTP-wireshark-file5.html
banner.jpg
manic.cs.umass.edu
This little HTML file has two embedded JPEG images. One for the banner above, and one for our book's cover below:
4th
Computer Networking
A Top-Down Approach
James F. Kurose • Keith W. Ross

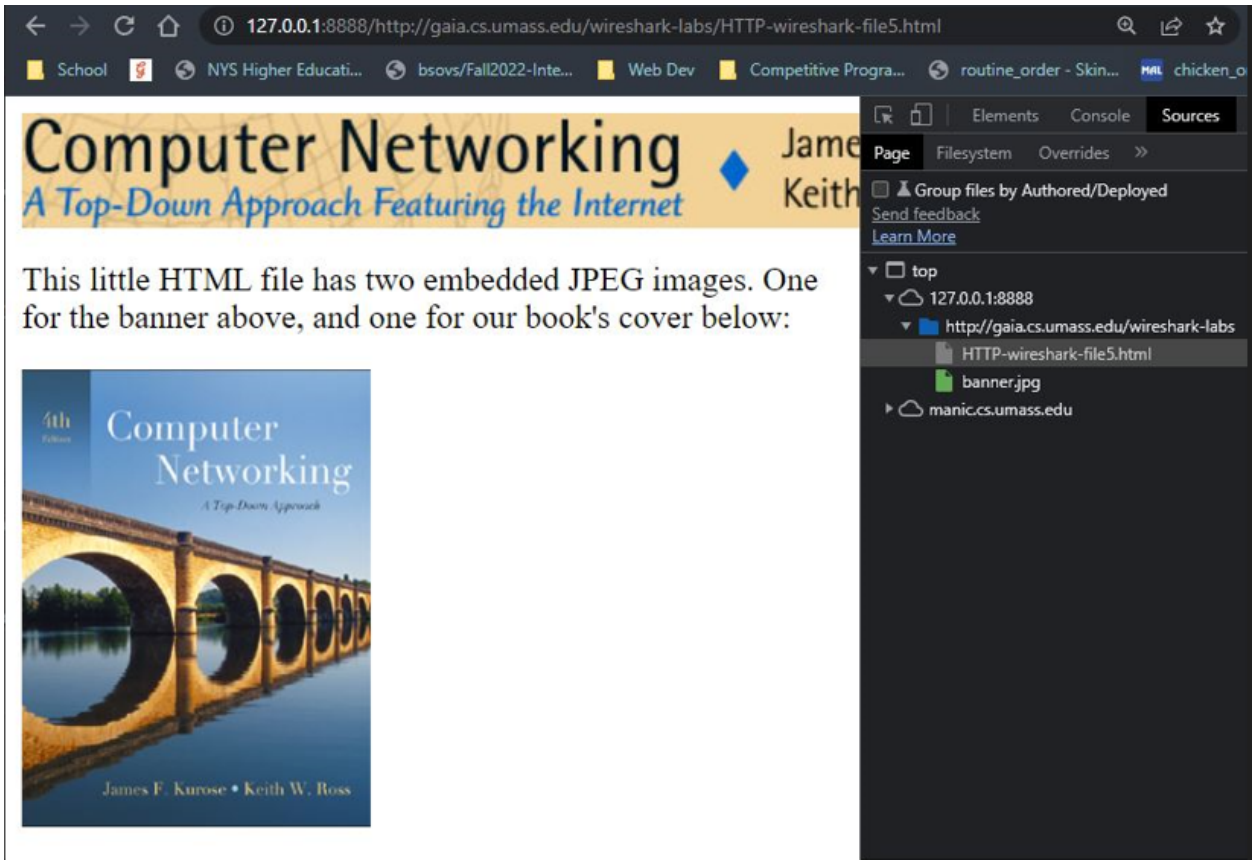
4) Request http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html from proxy

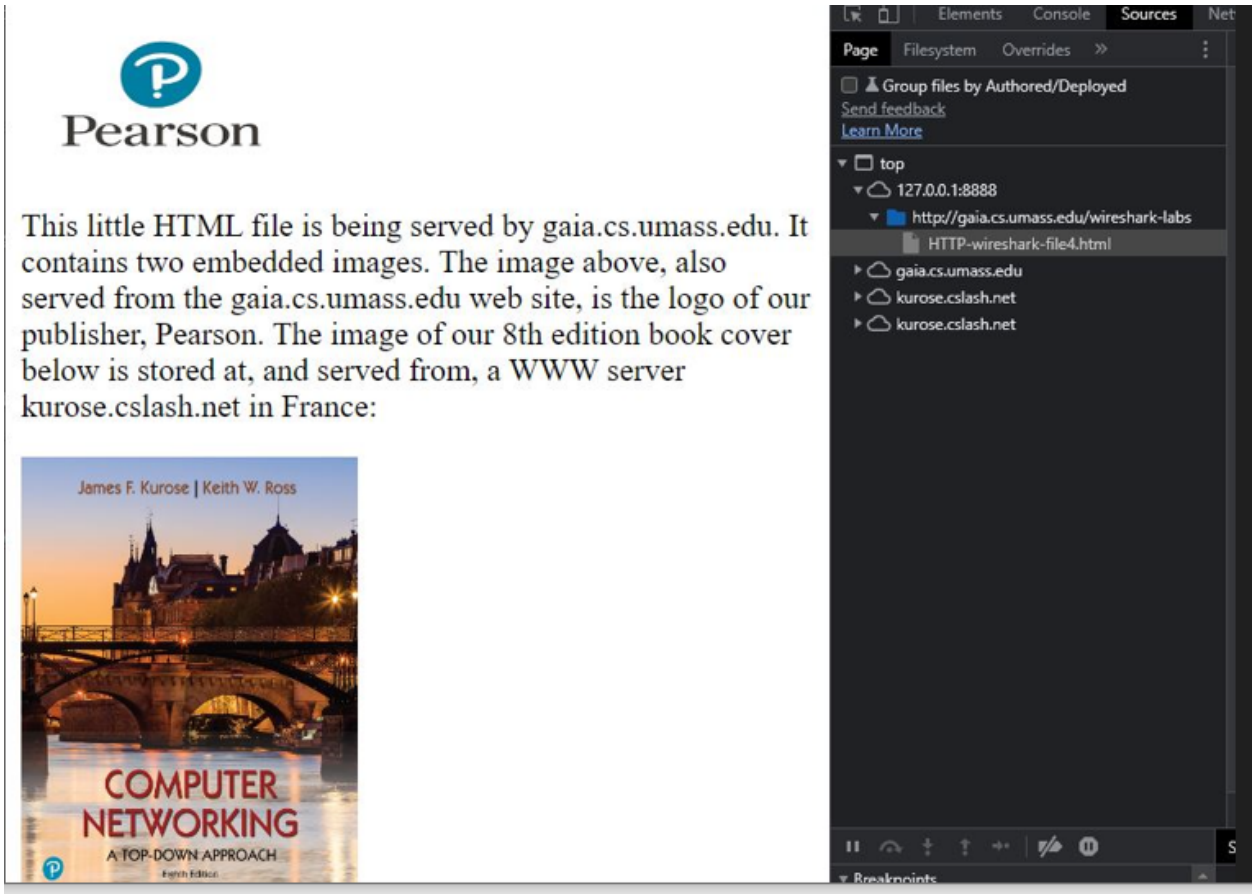
```
Client Requested Resource Not Cached: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html
Length 942: response received from gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html
HTTP/1.1 200 OK
Date: Wed, 28 Sep 2022 21:56:23 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.30 mod_perl/2.0.11 Perl/v5.16.3
Last-Modified: Wed, 28 Sep 2022 05:59:01 GMT
ETag: "3ae-5e9b6751c5b04"
Accept-Ranges: bytes
Content-Length: 942
Content-Type: text/html; charset=UTF-8

```



5) Request http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file5.html and receive it from proxy cache

```
Client Requested Resource Not Cached: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html
Length 942: response received from gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html
HTTP/1.1 200 OK
Date: Wed, 28 Sep 2022 21:56:23 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.30 mod_perl/2.0.11 Perl/v5.16.3
Last-Modified: Wed, 28 Sep 2022 05:59:01 GMT
ETag: "3ae-5e9b6751c5b04"
Accept-Ranges: bytes
Content-Length: 942
Content-Type: text/html; charset=UTF-8

Requested file found in cache: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file5.html
Requested file found in cache: gaia.cs.umass.edu/wireshark-labs/banner.jpg
```



6) Request http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html and receive it from proxy cache

```
Client Requested Resource Not Cached: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html
Length 942: response received from gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html
HTTP/1.1 200 OK
Date: Wed, 28 Sep 2022 21:56:23 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.30 mod_perl/2.0.11 Perl/v5.16.3
Last-Modified: Wed, 28 Sep 2022 05:59:01 GMT
ETag: "3ae-5e9b6751c5b04"
Accept-Ranges: bytes
Content-Length: 942
Content-Type: text/html; charset=UTF-8

Requested file found in cache: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file5.html
Requested file found in cache: gaia.cs.umass.edu/wireshark-labs/banner.jpg
Requested file found in cache: gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html
```