

**Computer Science 571 Exam #1**  
**Prof. Papa**  
**Tuesday, October 3, 2017, 7:30pm – 8:50pm**

**Name:** \_\_\_\_\_ **Student Id Number:** \_\_\_\_\_

1. This is a closed book exam.
2. Please answer all questions.
3. Place all answers on the exam and return the entire exam.

**PHP QUESTIONS [10 PTS]**

Each question is worth 2 points.

**Q1: Which of the following is true in PHP for rules that must be followed when naming a variable?**

**A1:**

- ☐ Must begin with a dollar sign
- ☐ The first character after the dollar sign must be an uppercase letter or underscore
- ☐ Identifiers can contain spaces.
- ☐ May contain uppercase and lowercase letters, numbers and underscores
- ☐ Identifiers are case sensitive
- ☐ ALL OF THE ABOVE
- ☐ NONE OF THE ABOVE

**Q2: What is the purpose of a variable declared “static”?**

**A2:**

**Q3: Consider the PHP code snippet:**

```
<?php
$vat_rate = 0.175;
echo $vat_rate * 100 . “%”;
?>
```

**What is the output produced?**

**A3:**

**Q4: Consider this PHP code snippet:**

```
<?php
function foo($arg_1, $arg_2)
{
    $arg_2 = $arg_1 * $arg_2;
    return $arg_2;
}
$result_1 = foo(12, 3);
echo $result_1;
echo foo(12, 3);
?>
```

**What is the output produced?**

**A4:**

**Q5:** For this question, you will use a list of five of the largest cities in the world. (Please note, these are not the ten largest, just a selection of five from the largest cities.) Create an array with the following values: Tokyo, Mexico City, New York City, Mumbai, and Seoul.

Print these values to the browser separated by commas, using a loop to iterate over the array. This question is worth 2 points. There is NO PARTIAL CREDIT.

```
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en"
lang="en">
<head>
<meta http-equiv="content-type"
content="text/html; charset=iso-8859-1" />
<title>Simple Array Loop - Cities</title>
</head>

<body>
<h2>Large Cities<br /></h2>

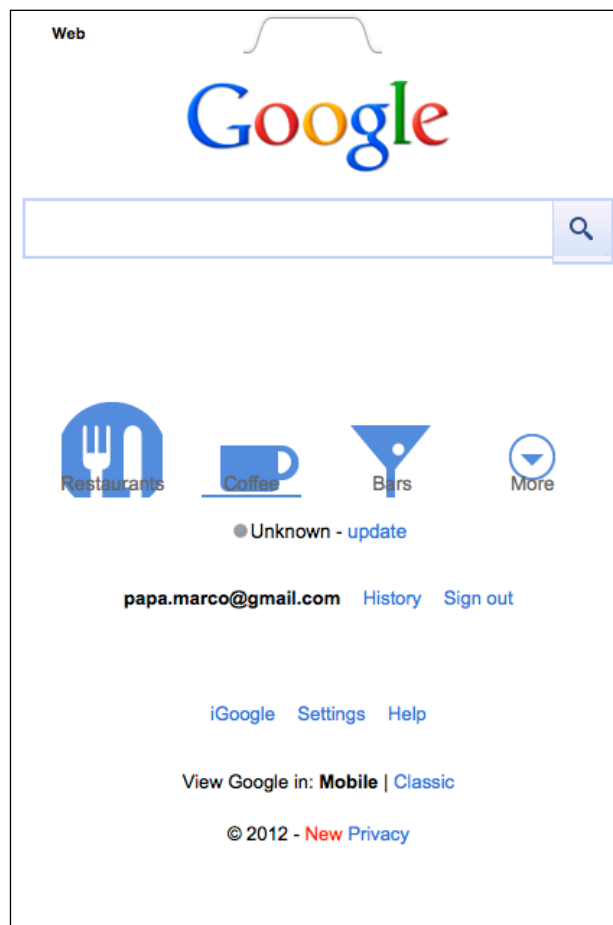
<?php
//Create array.
$cities=
```

```
//Print values of array to browser, separated by commas.  
Foreach
```

```
?>
```

```
</body>  
</html>
```

## HTTP QUESTIONS [20 PTS]



The picture above is a snapshot of an iPhone, accessing Google Mobile. Below is part of an exchange of messages between the browser and [www.google.com](http://www.google.com). Answer the questions that follow. Each question is worth 2 points. NOTICE: there is NO PARTIAL CREDIT on any of the questions.

---

**Transaction 1:**

http://google.com/

GET / HTTP/1.1  
Host: google.com  
User-Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3\_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16  
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8  
Accept-Language: en-us,en;q=0.5  
Accept-Encoding: gzip, deflate  
Connection: keep-alive  
Cookie: rememberme=true;  
SID=DQAAALYAAAAOxSu9gLe\_6MAJNuIGaUI\_yJdQ0QWUWcpQsfOTEistdIDmSJZsy5JFCh7NldGmMHJkFQIHxudOThLmujz901DIc1UzI7hrD755ZvuA3Cf5U0mv4UT7eu\_oxXNFxPwAsXvjEi0TnpjY7TgfuZLjSBVgW8EP\_zhUC99XkK5OQDFST0MrPVqa2S-4rHhLlN06UuOBkTN4AlluzZNWzX-cNvK2fWh2K-CjnU1QaLGII9VzbqAlR\_plGLuyEVplglvRdMw;  
PREF=ID=7c6e6b3cd9a5942f:U=9f44cf0a8279d4ac:FF=0:TM=1303788727:LM=1329725620:GM=1:S=jWjIj\_kEdiM2B96x; HSID=AUqWe6aXETXwIKOsF; APISID=A3CWXKT-sm9ltGqG/ADSVUh9mFFvh2vAhG; NID=57=e5Q8Xz-stt\_quQcEEBoXnYgHQnQy3mm0fSg53PazgSopWb-LamVecmHDrS0tyLgzMbgCCtgYkuOp6udRm8ql2XbbggDfBUtIQz5D86wOYLG321Lk262PuDu\_AmE2ypMr; PP\_TOS\_ACK=2

HTTP/1.1 301 Moved Permanently  
Location: http://www.google.com/  
Content-Type: text/html; charset=UTF-8  
Date: Mon, 20 Feb 2012 08:35:40 GMT  
Expires: Wed, 21 Mar 2012 08:35:40 GMT  
Cache-Control: public, max-age=2592000  
Server: gws  
Content-Length: 219  
X-XSS-Protection: 1; mode=block  
x-frame-options: SAMEORIGIN

---

**Transaction 2:**

http://www.google.com/

GET / HTTP/1.1  
Host: www.google.com  
User-Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3\_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16  
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8  
Accept-Language: en-us,en;q=0.5  
Accept-Encoding: gzip, deflate  
Connection: keep-alive  
Cookie: rememberme=true;  
SID=DQAAALYAAAAOxSu9gLe\_6MAJNuIGaUI\_yJdQ0QWUWcpQsfOTEistdIDmSJZsy5JFCh7NldGmMHJkFQIHxudOThLmujz901DIc1UzI7hrD755ZvuA3Cf5U0mv4UT7eu\_oxXNFxPwAsXvjEi0TnpjY7TgfuZLjSBVgW8EP\_zhUC99XkK5OQDFST0MrPVqa2S-4rHhLlN06UuOBkTN4AlluzZNWzX-cNvK2fWh2K-CjnU1QaLGII9VzbqAlR\_plGLuyEVplglvRdMw;

PREF=ID=7c6e6b3cd9a5942f:U=9f44cf0a8279d4ac:FF=0:TM=1303788727:LM=1329725620:GM=1:S=jWjIj\_kEdiM2B96x; HSID=AUqWe6aXETXwIKOsF; APISID=A3CWXKT-sm9ltGqG/ADSVUh9mFFvh2vAhG; NID=57=e5Q8Xz-stt\_quQcEEBoXnYgHQnQy3mm0fSg53PazgSopWb-LamVecmHDrS0tyLgzMbgCCtgYkuOp6udRm8ql2XbbggDfBUtIQz5D86wOYLG32lLk262PuDu\_AmE2ypMr; PP\_TOS\_ACK=2

HTTP/1.1 200 OK  
Content-Type: text/html; charset=UTF-8  
Content-Encoding: gzip  
Transfer-Encoding: chunked  
Date: Mon, 20 Feb 2012 08:35:40 GMT  
Server: gws  
Cache-Control: private  
X-XSS-Protection: 1; mode=block  
x-frame-options: SAMEORIGIN

---

**Transaction 3:**

http://www.google.com/images/srpr/logo3w.png

GET /images/srpr/logo3w.png HTTP/1.1  
Host: www.google.com  
User-Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3\_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16  
Accept: image/png,image/\*;q=0.8,\*/\*;q=0.5  
Accept-Language: en-us,en;q=0.5  
Accept-Encoding: gzip, deflate  
Connection: keep-alive  
Referer: http://www.google.com/  
Cookie: rememberme=true;  
SID=DQAAALYAAAAOxSu9gLe\_6MAJNuIGaUI\_yJdQ0QWUWcpQsfOTEistdIDmSJZsy5JFCh7NldGmMHJkFQIHxudOTHLmuJz901DiClUzI7hrD755ZvuA3Cf5U0mv4UT7eu\_oxXNFxPwAsXvjEi0TnpjY7TgfuZLjSBVgW8EP\_zhUC99XkK5QODFST0MrPVqa2S-4rHhLlN06UuOBkTN4AlluzZNWzX-cnV2KfWh2K-CjnU1QaLGII9VzbqAlR\_plGLuyEVplglvRdMw;  
PREF=ID=7c6e6b3cd9a5942f:U=9f44cf0a8279d4ac:FF=0:TM=1303788727:LM=1329725620:GM=1:S=jWjIj\_kEdiM2B96x; HSID=AUqWe6aXETXwIKOsF; APISID=A3CWXKT-sm9ltGqG/ADSVUh9mFFvh2vAhG; NID=57=e5Q8Xz-stt\_quQcEEBoXnYgHQnQy3mm0fSg53PazgSopWb-LamVecmHDrS0tyLgzMbgCCtgYkuOp6udRm8ql2XbbggDfBUtIQz5D86wOYLG32lLk262PuDu\_AmE2ypMr; PP\_TOS\_ACK=2

HTTP/1.1 200 OK  
Content-Type: image/png  
Last-Modified: Fri, 05 Aug 2011 02:40:26 GMT  
Date: Mon, 20 Feb 2012 08:35:40 GMT  
Expires: Mon, 20 Feb 2012 08:35:40 GMT  
Cache-Control: private, max-age=31536000  
X-Content-Type-Options: nosniff  
Server: sffe  
Content-Length: 7007  
X-XSS-Protection: 1; mode=block

---

**Transaction 4:**

http://www.google.com/extern\_js/f/CgJlbhICdXMrMEU4ACwrMFo4ACwrMA44ACwrMBc4ACwrMDw4ACwrMFE4ACwrMAo4AJJoCA21vYiwrMJgBOAAsKzAWOAsKzAZOAsKzBBOAAsKzBNOAAsKzBBOAAsKzBTOAAsKzBUOAAsKzBpOAAsKzBrOAAsKzB2OAAsKzB7OAAsKzCAATg

ALCswAE4ACwrMIwBOAAsKzCQATgALCswkgE4ACwrMJYBOAAsKzCjATgALCswqAE4ACwrMKwBOAAsKzCzATgALCswvgE4ACwrMMwBOAAsKzDVATgALCsw2AE4ACwrMIYBOAAsKzCRATgALCswpAE4ACwrMBg4ACwrMCY4ACyAAlaQAmU/csmWpFDHhv8.js

GET

/extern\_js/f/CgJlhbICdXMrMEU4ACwrMFO4ACwrMA44ACwrMBc4ACwrMDw4ACwrMFE4ACwrMAo4AJocA21vYiwrMJgBOAAsKzAWOAsKzAZOAsKzBBOAAsKzBNOAAsKzBOOAAsKzBTOAAsKzBUOAAsKzBpOAAsKzBrOAAsKzB2OAAsKzB7OAAsKzCAATgALCswAE4ACwrMIwBOAAsKzCQATgALCswkgE4ACwrMJYBOAAsKzCjATgALCswqAE4ACwrMKwBOAAsKzCzATgALCswvgE4ACwrMMwBOAAsKzDVATgALCsw2AE4ACwrMIYBOAAsKzCRATgALCswpAE4ACwrMBg4ACwrMCY4ACyAAlaQAmU/csmWpFDHhv8.js HTTP/1.1

Host: www.google.com

User-Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3\_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16

Accept: \*/\*

Accept-Language: en-us,en;q=0.5

Accept-Encoding: gzip, deflate

Connection: keep-alive

Referer: http://www.google.com/

Cookie: rememberme=true;

SID=DQAAALYAAAAOxSu9gLe\_6MAJNuIGaUI\_yJdQ0QWUWcpQsfOTEistdIDmSJZsy5JFCh7NldGmMHJkFQIHXud0ThLmuJz901DlclUzI7hrD755ZvuA3Cf5U0mv4UT7eu\_oxXNFxPwAsXvjEi0TnpjY7TgfuZLjSBVgW8EP\_zhUC99XkK5OQDFST0MrPVqa2S-4rHhLlN06UuOBkTN4AlluzZNWzX-cNvK2fWh2K-

CjnU1QaLGII9VzbqAlR\_plGLuyEVplglvRdMw;

PREF=ID=7c6e6b3cd9a5942f:U=9f44cf0a8279d4ac:FF=0:TM=1303788727:LM=1329725620:GM=1:S=jWjIj\_kEdiM2B96x; HSID=AUqWe6aXETXwIKOsF; APISID=A3CWXKT-sm9ltGqG/ADSVUh9mFFvh2vAhG; NID=57=e5Q8Xz-

stt\_quQcEEBoXnYgHQnQy3mm0fSg53PazgSopWb-

LamVecmHDrSotyLgzMbgCCtgYkuOp6udRm8ql2XbbggDfBUtIQz5D86wOYLG32lLk262PuDu\_AmE2ypMr; PP\_TOS\_ACK=2

HTTP/1.1 200 OK

Content-Type: text/javascript; charset=UTF-8

Expires: Fri, 15 Feb 2013 00:00:00 GMT

Last-Modified: Fri, 18 Feb 2011 00:00:00 GMT

Date: Fri, 17 Feb 2012 21:10:37 GMT

Vary: Accept-Encoding

Content-Disposition: attachment

Content-Encoding: gzip

Server: gws

Content-Length: 84238

X-XSS-Protection: 1; mode=block

x-frame-options: SAMEORIGIN

Cache-Control: public, max-age=31536000

Age: 213903

---

**Transaction 5:**

<http://www.google.com/mbd?hl=en&output=search&mbtype=56>

GET /mbd?hl=en&output=search&mbtype=56 HTTP/1.1

Host: www.google.com

User-Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3\_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Language: en-us,en;q=0.5

Accept-Encoding: gzip, deflate  
Connection: keep-alive  
Referer: http://www.google.com/  
Cookie: rememberme=true;  
SID=DQAAALYAAAAOxSu9gLe\_6MAJNuIGaUI\_yJdQ0QWUWcpQsf0TEistdIDmSJZsy5JFCh7  
NldGmMHJkFQIHxudOThLmujz901DIc1UzI7hrD755ZvuA3Cf5U0mv4UT7eu\_oxXNFxPwAsX  
vjEi0TnpjY7TgfuZLjSBVgW8EP\_zhUC99XkK5Q0DFST0MrPVqa2S-  
4rHhL1N06UuOBkTN4AlluzZNWzX-cNvK2fWh2K-  
CjnU1QaLGII9VzbqAlR\_plGLuyEVplglvRdMw;  
PREF=ID=7c6e6b3cd9a5942f:U=9f44cf0a8279d4ac:FF=0:TM=1303788727:LM=13297  
25620:GM=1:S=jWjIj\_kEdiM2B96x; HSID=AUqWe6aXETXwIKOsF; APISID=A3CWXKT-  
sm9ltGqG/ADSVUh9mFFvh2vAhG; NID=57=e5Q8Xz-  
stt\_quQcEEBoXnYgHQnQy3mm0fSg53PazgSopWb-  
LamVecmHDrS0tyLgzMbgCCtgYkuOp6udRm8ql2XbbggDfBUtIQz5D86wOYLG32lLk262PuD  
u\_AmE2ypMr; PP\_TOS\_ACK=2

HTTP/1.1 200 OK  
Cache-Control: private, max-age=0  
Content-Type: text/html; charset=UTF-8  
Date: Mon, 20 Feb 2012 08:35:40 GMT  
Expires: -1  
Content-Encoding: gzip  
Server: gws  
Content-Length: 103  
X-XSS-Protection: 1; mode=block  
x-frame-options: SAMEORIGIN

---

#### Transaction 6:

http://clients1.google.com/generate\_204

GET /generate\_204 HTTP/1.1  
Host: clients1.google.com  
User-Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3\_0 like Mac OS X;  
en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341  
Safari/528.16  
Accept: image/png,image/\*;q=0.8,\*/\*;q=0.5  
Accept-Language: en-us,en;q=0.5  
Accept-Encoding: gzip, deflate  
Connection: keep-alive  
Referer: http://www.google.com/  
Cookie: rememberme=true;  
SID=DQAAALYAAAAOxSu9gLe\_6MAJNuIGaUI\_yJdQ0QWUWcpQsf0TEistdIDmSJZsy5JFCh7  
NldGmMHJkFQIHxudOThLmujz901DIc1UzI7hrD755ZvuA3Cf5U0mv4UT7eu\_oxXNFxPwAsX  
vjEi0TnpjY7TgfuZLjSBVgW8EP\_zhUC99XkK5Q0DFST0MrPVqa2S-  
4rHhL1N06UuOBkTN4AlluzZNWzX-cNvK2fWh2K-  
CjnU1QaLGII9VzbqAlR\_plGLuyEVplglvRdMw;  
PREF=ID=7c6e6b3cd9a5942f:U=9f44cf0a8279d4ac:FF=0:TM=1303788727:LM=13297  
25620:GM=1:S=jWjIj\_kEdiM2B96x; HSID=AUqWe6aXETXwIKOsF; APISID=A3CWXKT-  
sm9ltGqG/ADSVUh9mFFvh2vAhG; NID=57=e5Q8Xz-  
stt\_quQcEEBoXnYgHQnQy3mm0fSg53PazgSopWb-  
LamVecmHDrS0tyLgzMbgCCtgYkuOp6udRm8ql2XbbggDfBUtIQz5D86wOYLG32lLk262PuD  
u\_AmE2ypMr; PP\_TOS\_ACK=2

HTTP/1.1 204 No Content  
Content-Length: 0  
Content-Type: text/html  
Date: Mon, 20 Feb 2012 08:35:40 GMT  
Server: GFE/2.0

-----  
http://www.gstatic.com/m/images/gray\_dot.png

GET /m/images/gray\_dot.png HTTP/1.1  
Host: www.gstatic.com  
User-Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3\_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16  
Accept: image/png,image/\*;q=0.8,\*/\*;q=0.5  
Accept-Language: en-us,en;q=0.5  
Accept-Encoding: gzip, deflate  
Connection: keep-alive  
Referer: http://www.google.com/

HTTP/1.1 200 OK  
Content-Type: image/png  
Last-Modified: Wed, 28 Sep 2011 03:00:23 GMT  
Date: Fri, 17 Feb 2012 21:05:42 GMT  
Expires: Sat, 16 Feb 2013 21:05:42 GMT  
X-Content-Type-Options: nosniff  
Server: sffe  
Content-Length: 473  
X-XSS-Protection: 1; mode=block  
Cache-Control: public, no-transform, max-age=31536000  
Age: 214198

---

**Transaction 7:**

http://ssl.gstatic.com/m/og/resources/resources\_v16\_s2.js

GET /m/og/resources/resources\_v16\_s2.js HTTP/1.1  
Host: ssl.gstatic.com  
User-Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3\_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16  
Accept: \*/\*  
Accept-Language: en-us,en;q=0.5  
Accept-Encoding: gzip, deflate  
Connection: keep-alive  
Referer: http://www.google.com/

HTTP/1.1 200 OK  
Vary: Accept-Encoding  
Content-Encoding: gzip  
Content-Type: text/javascript  
Last-Modified: Thu, 02 Feb 2012 18:53:53 GMT  
Date: Fri, 17 Feb 2012 21:05:43 GMT  
Expires: Sat, 16 Feb 2013 21:05:43 GMT  
X-Content-Type-Options: nosniff  
Server: sffe  
Content-Length: 120277  
X-XSS-Protection: 1; mode=block  
Cache-Control: public, max-age=31536000  
Age: 214198

---

**[2 pts] What transactions involve a "redirect" and what is the redirect target?**



**Answer:**

**[2 pts] What compression is the browser supporting?**

**Answer:**

**[2 pts] What response headers are used to help caching images?**

**Answer:**

**[2 pts] Is any content delivered in compressed form and if yes, in what transactions and what is the name of the compresses object?**

**Answer:**

**[2 pts] What Document (MIME) types are returned by the servers?**

**Answer:**

**[2 pts] How many web servers are involved in these transactions and what are their names?**

**Answer:**

**[2 pts] Are all connections "persistent"?**

**Answer:**

**[2 pts] Some transactions are returning "301 Moved Permanently". What does that mean?**

**Answer:**

**[2 pts] What character sets are used in these transactions and for what type of content?**

**Answer:**

**[2 pts] What MIME type(s) does the browser support?**

**Answer:**

## **CSS QUESTIONS [10 PTS]**

Below are lines extracted from the CSS style sheet of cbsnews.com. For each line answer the question. Each question is worth 2 points.

**Q1. Give an HTML example usage of the declaration below:**

```
.contentWrap #contentMain .centerColumn  
    {width:380px;  
    float:left;  
    margin:0;}
```

**A1.**

**Q2. What does this declaration do?**

```
.isGeneric .contentWrap{margin:20px 20px 0;}
```

**A2.**

**Q3. Give one (1) HTML example of usage of the declaration below:**

```
a img,:link img,:visited img{border:0;}
```

**A3.**

**Q4. Give an HTML example usage of the declaration below, with 4 nested elements:**

```
.showNav ul {  
    height:16px;  
    padding:5px 0 0;  
    float:left;  
    width:620px;  
    margin:0 20px 0 0;  
}  
  
.showNav ul li {  
    display:block;
```

```

float:left;
padding: 1px 8px 0 8px;
}

.showNav ul li a:hover{color:#202022;}

```

**A4.**

**Q5. Create a generic CSS class named nfl-logo that sets the background image to the url <http://www.nfl.com/images/nfl-logo-large.png>, the position in pixels to (-100, 0) and does not repeat it.**

**A5.**

## **WEB SERVER/HTTP QUESTIONS [20 PTS]**

Below is an actual httpd.conf file. Answer the questions that follow. Each question is worth 2 points.

```

#
ServerType standalone
ServerRoot "/etc/httpd"
PidFile /var/run/httpd.pid
ResourceConfig /dev/null
AccessConfig /dev/null
Timeout 300
KeepAlive On
MaxKeepAliveRequests 0
KeepAliveTimeout 15
MinSpareServers 16
MaxSpareServers 64
StartServers 16
MaxClients 512
MaxRequestsPerChild 100000

Port 80

```

```

<IfDefine SSL>
Listen 80
Listen 443
</IfDefine>

User www
Group www
ServerAdmin admin@openna.com
ServerName www.openna.com
DocumentRoot "/home/httpd/ona"

<Directory />
Options None
AllowOverride None
Order deny,allow
Deny from all
</Directory>

<Directory "/home/httpd/ona">
Options None
AllowOverride None
Order allow,deny
Allow from all
</Directory>

<Files .pl>
Options None
AllowOverride None
Order deny,allow
Deny from all
</Files>

<IfModule mod_dir.c>
DirectoryIndex index.htm index.html index.php index.php3
default.html
</IfModule>

#<IfModule mod_include.c>
#Include conf/mmap.conf
#</IfModule>

<IfModule mod_mime.c>
TypesConfig /etc/httpd/conf/mime.types
</IfModule>

DefaultType text/plain
HostnameLookups Off

ErrorLog /var/log/httpd/error_log
LogLevel warn
LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined
SetEnvIf Request_URI \.gif$ gif-image
CustomLog /var/log/httpd/access_log combined env=!gif-image
ServerSignature Off
LoadModule php5_module modules/libphp5.so

```

```

<FilesMatch "\.ph(p[2-6]?|tml)$">
    SetHandler application/x-httpd-php
</FilesMatch>

<IfModule mod_alias.c>
ScriptAlias /cgi-bin/ "/home/httpd/cgi-bin/"
<Directory "/home/httpd/cgi-bin">
AllowOverride None
Options None
Order allow,deny
Allow from all
</Directory>
</IfModule>

<IfModule mod_mime.c>
AddEncoding x-compress Z
AddEncoding x-gzip gz tgz

AddType application/x-tar .tgz
</IfModule>

ErrorDocument 500 "The server made a boo boo."
ErrorDocument 404 http://192.168.1.1/error.htm
ErrorDocument 403 "Access Forbidden -- Go away."

<IfModule mod_setenvif.c>
BrowserMatch "Mozilla/2" nokeepalive
BrowserMatch "MSIE 4\.0b2;" nokeepalive downgrade-1.0 force-
response-1.0
BrowserMatch "RealPlayer 4\.0" force-response-1.0
BrowserMatch "Java/1\.0" force-response-1.0
BrowserMatch "JDK/1\.0" force-response-1.0
</IfModule>

#
<IfDefine SSL>
AddType application/x-x509-ca-cert .crt
AddType application/x-pkcs7-crl .crl
</IfDefine>

<IfModule mod_ssl.c>
SSLPassPhraseDialog builtin
SSLSessionCache dbm:/var/run/ssl_scache
SSLSessionCacheTimeout 300

SSLLog /var/log/httpd/ssl_engine_log
SSLLogLevel warn
</IfModule>

<IfDefine SSL>
<VirtualHost _default_:443>

DocumentRoot "/home/httpd/ona"
ServerName www.openna.com
ServerAdmin admin@openna.com
ErrorLog /var/log/httpd/error_log

```

```
</VirtualHost>  
</IfDefine>
```

**Q1.** What is the root directory of the server?

**Q2.** What is the root directory for web pages?

**Q3.** What is the URL of the home page?

**Q4.** What is the name of the home page?

**Q5.** What is the location of the error log file?

**Q6.** If a web page is not found by the server, what page is returned?

**Q7.** What is the purpose of the first line of the file?

**Q8.** Does this server support secure communication and where in the configuration file?

**Q9.** Does this server support compression and where in the configuration file?

**Q10.** Does this server support PHP and where in the configuration file?

## **JAVASCRIPT / REGULAR EXPRESSIONS QUESTIONS [20 PTS]**

Consider the following code that performs password validation. Some of the lines have missing code. Complete the missing code. Each answer is worth 2 points

```
<script type="text/javascript">

function checkForm(form)
{
    if(XXXXXXXXXX1) {

        _____
        alert("Error: Username cannot be blank!");
        form.username.focus();
        return false;
    }
    re = XXXXXXXXXXXX2;

    _____
    if(!re.test(form.username.value)) {
        alert("Error: Username must contain only letters, numbers
and underscores!");
        XXXXXXXXXXXX3;

        _____
        return false;
    }

    if(form.pwd1.value != "" && form.pwd1.value ==
form.pwd2.value) {
        if(XXXXXXXXXX4) {

            _____
            alert("Error: Password must contain at least six
characters!");
            form.pwd1.focus();
            return false;
        }
        if(XXXXXXXXXX5) {

            _____
            alert("Error: Password must be different from
Username!");
            form.pwd1.focus();
            return false;
        }
        re = XXXXXXXXXXXX6;

        _____
        if(!re.test(form.pwd1.value)) {
```

```

        alert("Error: password must contain at least one
number!");
        form.pwd1.focus();
        return false;
    }
    re = xxxxxxxxx7;

    if(!re.test(form.pwd1.value)) {
        alert("Error: password must contain at least one
lowercase letter!");
        form.pwd1.focus();
        return false;
    }
    re = xxxxxxxxx8;

    if(!re.test(form.pwd1.value)) {
        alert("Error: password must contain at least one
uppercase letter!");
        form.pwd1.focus();
        return false;
    }
    } else {
        alert("Error: Please check that you've entered and
confirmed your password!");
        form.pwd1.focus();
        return false;
    }

    alert("You entered a valid password: " + form.pwd1.value);
    return true;
}

</script>

```

```

<form method="POST" action="..." onsubmit="return
xxxxxxxxx9";">

```

```

<p>Username: <input type="text" name="username"></p>
<p>Password: <input type="password" xxxxxxxxx10></p>

```

```

<p>Confirm Password: <input type="password" name="pwd2"></p>
<p><input type="submit"></p>
</form>

```

## JSON QUESTIONS [10 PTS]



Each question is worth 2 points.

**Q1: List 3 properties of JSON**

**Q2. What is a possible drawback of the eval() function?**

**Q3. What is the first index in a JSON array?**

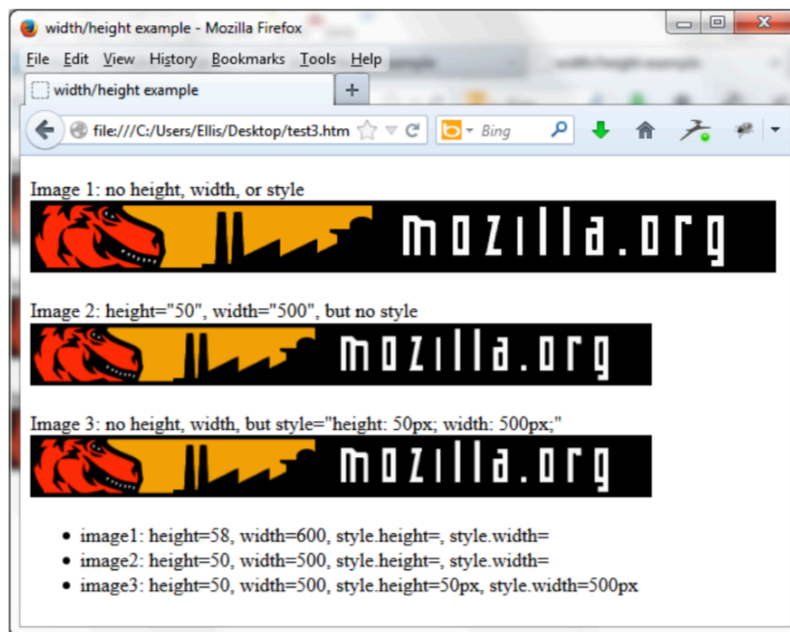
**Q4. JSON Parsers (True / False)**

**A JSON encoder must only produce well-formed JSON text [ ]True [ ]False**

**Q5. What is JSONP?**

## **DOM QUESTIONS [10 PTS]**

Below is a web page that was produced by the program that follows. But some of the code is missing. Fill in the missing code. Each correct line is worth 2 points.



```
<!DOCTYPE html>
<html lang="en">
<head>
<title>width/height example</title>
<script>
function init() {
    var arrImages = new Array(3);
    arrImages[0] = XXXXXXXX1;

    arrImages[1] = XXXXXXXX2;

    arrImages[2] = XXXXXXXX3;

    var objOutput = XXXXXXXX4;

    var strHtml = "<ul>";

    for (var i = 0; i < XXXXXXXX5; i++) {
```

```

        strHtml += "<li>image" + xxxxxxxx6 +



---


        ": height=" + xxxxxxxx7 +



---


        ", width=" + xxxxxxxx8 +



---


        ", style.height=" + xxxxxxxx9 +



---


        ", style.width=" + xxxxxxxx10 +



---


        "<\li>";
    }
    strHtml += "<\ul>";
    objOutput.innerHTML = strHtml;
}
</script>
</head>
<body onload="init();">
<p>Image 1: no height, width, or style
    
</p>
<p>Image 2: height="50", width="500", but no style
    
</p>
<p>Image 3: no height, width, but style="height: 50px;
width: 500px;"
    
</p>
<div id="output"> </div>
</body></html>

```