1. True or False:

(a) True. You can validate CSS files, in the same way you validate HTML files.
(b) False. Every CSS property declaration ends with a period.
(c) False. `em` specifies absolute sizes for fonts.
(d) False. If you mix 100% red, 100% green, and 100% blue you will get black.
(e) False. In strict HTML, you cannot nest block elements inside block elements.
(f) False. Pseudoclasses must be defined in your HTML file to be used.
(g) False. The `div` element is used to style in-line elements.
(h) False. Tables are defined in columns, using the `<tc>` element.
(i) True. The `<th>` element can designate either row or column headings.
(j) True. POST and GET are both ways of sending data to the web application.

2. Answer in two sentences or less the following:

(a) What does the padding property do? Give an example.
   The padding property is used to add extra space around an element, inside the (optional) border. For example, `'padding: 20px'` adds 20 pixels of space around the element.

(b) What does the margin property do? How does it differ from the padding property?
   The margin property also adds space around an element, but it adds it outside the border.

3. For each of the following, identify whether it would be done in HTML or CSS:

(a) **HTML** organize items in a table
(b) **HTML** include an image
(c) **CSS** set the width of an element
(d) **CSS** change the text alignment of a paragraph
(e) **CSS** change the background color of the page
4. Fill in the following table with the corresponding decimal or hexcode representation of the number. For partial credit, show your work.

<table>
<thead>
<tr>
<th>Decimal</th>
<th>Hexcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>B</td>
</tr>
<tr>
<td>17</td>
<td>#11</td>
</tr>
<tr>
<td>20</td>
<td>#14</td>
</tr>
<tr>
<td>171</td>
<td>#ab</td>
</tr>
<tr>
<td>255</td>
<td>#ff</td>
</tr>
</tbody>
</table>

#11 = 16*1 + 1 = 17
20/16 = 1 remainder 4
#ab = 16*#a + #b = 16*10 + 11 = 160 + 11 = 171
#ff = 16*#f + #f = 16*15 + 15 = 240+15 = 255

5. Write the HTML that does the following:

(a) makes a text box where the user can enter their name:
   
   <input type="text" name="name" id="name" value=""/>

(b) makes a “submit” button with label, “Order now”:
   
   <input type="submit" value="Order Now"/>

(c) allows the user to select condiments for their order from salt, pepper, garlic (allow multiple items to be selected):
   
   <input type="checkbox" name="extras[]" value="salt" id="salt">Salt<br>
   <input type="checkbox" name="extras[]" value="pepper" id="pepper">Pepper<br>
   <input type="checkbox" name="extras[]" value="garlic" id="garlic">Garlic

(d) makes a drop-down menu with a choice of: “House Blend,” “Shade Grown Bolivia,” “Organic Guatemala,” or “Kenya.”

   <select name="beans">
     <option value="House Blend">House Blend</option>
     <option value="Bolivia">Shade Grown Bolivia Supremo</option>
     <option value="Guatemala">Organic Guatemala</option>
     <option value="Kenya">Kenya</option>
   </select>

6. Be the browser with the following HTML and CSS files. Draw the page and indicate any style (color, borders, etc) on your page:
7. Write a complete CSS style sheet that:

- uses a sans-serif font throughout the page,
- has a non-white background color,
- <h1> and <h2> headings have a dotted bottom border,
• <h1> headings should have white text, and
• paragraphs inside a div element from the class options have solid borders.

body {
  font-family: sans-serif;
  background-color: #aaaaaa;
}
h1, h2 {
  border-bottom: dotted black;
}
h1 {
  color: white;
}
div p.options {
  border: solid;
}

8. Write the HTML code and the style sheet for the table with the following information:
(Hint: Remember to align the text for each cell.)

<table>
<thead>
<tr>
<th>Fall 2007: Total Enrollment by Undergraduate and Graduate Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>Lehman College</td>
</tr>
<tr>
<td>Community Colleges</td>
</tr>
<tr>
<td><strong>Total University</strong></td>
</tr>
</tbody>
</table>

HTML:
<caption>Fall 2007: Total Enrollment by Undergraduate and Graduate Level</caption>
<tr><td><th class="right">Undergraduate</th><th class="right">Graduate</th><th class="right">Total</th></tr>
<tr><td>Lehman College</td><td class="right">8,864</td><td class="right">2,058</td><td class="right">10,922</td></tr>
<tr><td>Community Colleges</td><td class="right">76,864</td><td>76,864</td></tr>
<tr><td><b>Total University</b></td><td class="right"><b>203,515</b></td><td class="right"><b>29,445</b></td><td class="right"><b>232,960</b></td></tr>
<table>
  <tr>
    <td class="right">76,864</td>
    <td class="right"></td>
    <td class="right">76,864</td>
  </tr>
  <tr>
    <th>Total University</th>
    <td class="right">203,515</td>
    <td class="right">29,445</td>
    <td class="right">232,960</td>
  </tr>
</table>

CSS:

table {
  border: thin solid black;
  caption-side: top;
  border-collapse: collapse;
}
td, th {
  border: thin solid black;
}
.right {
  text-align: right;
}

9. Write the style sheet that will arrange the following page:

- the main and sidebar sections should be side-by-side, and not overlapping,
- the award should be positioned on top of and overlapping the header, main, and sidebar sections,
- the coupon should have a fixed position, halfway down the browser’s left edge,
- the footer should clear both sections.

(Hint: Do not change any of the HTML code.)
QUALITY COFFEE, QUALITY CAFFEINE

At Starbuzz Coffee, we are dedicated to filling all your caffeine needs through our quality coffees and teas.

OUR STORY

"A man, a plan, a coffee bean". Okay, that doesn’t make a palindrome, but it resulted in a damn good cup of coffee. Starbuzz’s CEO is that man, and you already know his plan: a Starbuzz on every corner.

STARBUZZ COFFEE BEVERAGES

We’ve got a variety of caffeinated beverages to choose from at Starbuzz, including our House Blend, Mocha Cafe Latte, Cappuccino, and a favorite of our customers, Chai Tea.

We also offer a variety of coffee beans, whole or ground, for you to take home with you. Order your coffee today using our online Bean Machine, and take the Starbuzz Coffee experience home.

Why wait? You can order all our fine coffees right from the Internet with our new, automated Bean Machine. How does it work? Just click on the Bean Machine link, enter your order, and behind the scenes, your coffee is roasted, ground (if you want), packaged, and shipped to your door.

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Click here to get your free coffee

One possible answer:

#main {
  padding: 15px;
}
10. Write a complete HTML file and CSS file to display a blog page. The page should have a header (with title) and a footer (with your contact information), as well as a navigation sidebar with links to the entries in your page. You should include at least three entries, each containing the date, a short paragraph, and an image. When the user clicks on a date listed in the sidebar menu, the page should reload to that part of the page (hint: use destination anchors). The sidebar should appear to the right of the blog entries, and the footer should be at the bottom of the page, not overlapping any other section (i.e. it should “clear” all other sections).

HTML:

```html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
  <title>My Trip Around the USA on a Segway</title>
  <link type="text/css" rel="stylesheet" href="journal.css" />
</head>
<body>
```
August 20, 2005

Well I made it 1200 miles already, and I passed through some interesting places on the way:

July 14, 2005

I saw some Burma Shave style signs on the side of the road today:

```
Passing cars,  
When you can’t see,  
May get you,  
A glimpse,  
Of eternity.
```

June 2, 2005

My first day of the trip! I can’t believe I finally got everything packed and ready to go.

Contact Tony at headfirstlabs.com!
CSS:

```css
#sidebar {
    width: 150px;
    float: right;
    border: black solid;
    background-color: #cc6600;
}
#footer {
    clear: both;
    border: black solid;
    background-color: #cc6600;
}
```