1. True or False:

(a) T You can validate CSS files, in the same way you validate HTML files.
(b) T Every CSS property declaration ends with a semicolon.
(c) T px specifies absolute sizes for fonts.
(d) T If you mix 100% red, 100% green, and 100% blue you will get white.
(e) F Pseudoclasses must be defined in your HTML file to be used.
(f) T The span element is used to style in-line elements.
(g) T The padding and margin property both control the amount of space around an element.
(h) F Tables can be defined in columns, using the <tc> element, or in rows, using the <tr> element.
(i) T The <th> element can designate either row or column headings.
(j) F Every form must have a textarea element.

2. Answer in two sentences or less the following:

(a) What does the class attribute do? Give an example.
   The class attribute specifies a group for that element. By using the class name, style rules can be applied to every element in the group. For example, if a paragraph is in class "raspberry", then all the style rules for the selector "p.raspberry" will apply to it.

(b) What does id attribute do? How does it differ from the class attribute?
   The id attribute is used to assign a unique identification to an element. It differs from the class element in that there can be multiple elements in the same class versus the unique id. Its selector in CSS is proceeded by "#" instead of "."

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

(a) HTML organize items in a list
(b) HTML include a link
(c) CSS make a border around 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>12</td>
<td>c</td>
</tr>
<tr>
<td>18</td>
<td>#12</td>
</tr>
<tr>
<td>22</td>
<td>15</td>
</tr>
<tr>
<td>175</td>
<td>#af</td>
</tr>
<tr>
<td>255</td>
<td>#ff</td>
</tr>
</tbody>
</table>

#12 = 16 * #1 + #2 = 16 * 1 + 2 = 18
22/16 = 1 remainder 5
#af = 16 * #a + #f = 16 * 10 + 15 = 160 + 15 = 175
255/16 = 15 remainder 15 = #f remainder #f

5. Write the HTML that does the following for a form:

(a) makes a “submit” button with label, “Go!”:
   ```html
   <input type="submit" value="Go!"/>
   ```

(b) makes a text box where comments can be entered:
   ```html
   <textarea name="comments" rows="3" cols="50">(none)</textarea>
   ```

(c) allows the user to select toppings for their pizza order from extra cheese, peppers, sausage (allow multiple items to be selected):
   ```html
   Extra Cheese: <input type="checkbox" name="extras[]" value="xcheese"/>
   Peppers: <input type="checkbox" name="extras[]" value="peppers"/>
   Sausage: <input type="checkbox" name="extras[]" value="sausage"/>
   ```

(d) makes a drop-down menu with a choice of: “Freshman,” “Sophomore,” “Junior,” or “Senior.”
   ```html
   <select name="school class">
   <option value = "year1">Freshman</option>
   <option value = "year2">Sophomore</option>
   <option value = "year3">Junior</option>
   <option value = "year4">Senior</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:
<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
<head>
<title>Favorite Artists</title>
<link type="text/css" rel="stylesheet" 
href="artists.css" />
</head>
<body>
<h1>My Favorite Artists</h1>
<div id="sidebar"> 
<h2>Museums</h2>
<ul>
</ul>
</div>
<div id="georgia"> 
<h2>Georgia O’Keefe</h2>
<p><img src="poppies.jpg" width="250"> </p>
<p>American Painter, 1887-1986. </p>
</div>
<div id="jasper">
<h2>Jasper Johns</h2>
<p><img src="map1961.jpg" width="250"></p>
<p>American Painter and Printmaker, born 1930.</p>
</div>
<div id="footer">
<p>Katherine St. John, <span class="email">stjohn@lehman.cuny.edu</span></p>
</div>
</body>
</html>
My Favorite Artists

Georgia O'Keefe


Jasper Johns

American Painter and Printmaker, born 1930.

Museums

- O'Keefe Museum
- Museum of Modern Art

Katherine St. John, stjohn@lehman.cuny.edu

7. Write a complete CSS style sheet that:

- uses a serif font throughout the page,
- has blue `<h1>` and `<h2>` headings,
- visited links are red, and
- images inside a `div` element have solid black thin borders.

```css
body {
    font-family: serif;
}

h1, h2 {
}
8. Write the **HTML code only** for the table with the following information:
   *(Hint: Do not forget the caption!)*

<table>
<thead>
<tr>
<th>City</th>
<th>Date</th>
<th>Temperature</th>
<th>Altitude</th>
<th>Population</th>
<th>Diner Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truth or Consequences, NM</td>
<td>August 9th</td>
<td>93</td>
<td>4,242 ft</td>
<td>7,289</td>
<td>5/5</td>
</tr>
<tr>
<td></td>
<td>August 27th</td>
<td>98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Why, AZ</td>
<td>August 18th</td>
<td>104</td>
<td>860 ft</td>
<td>480</td>
<td>3/5</td>
</tr>
</tbody>
</table>

*The cities I visited on my Segway'n USA travels*

```html
<table>
  <caption>The cities I visited on my Segway'n USA travels</caption>
  <tr>
    <th>City</th>
    <th>Date</th>
    <th>Temperature</th>
    <th>Altitude</th>
    <th>Population</th>
    <th>Diner Rating</th>
  </tr>
  <tr>
    <td rowspan="2">Truth or Consequences, NM</td>
    <td class="center">August 9th</td>
    <td class="center">93</td>
    <td rowspan="2" class="right">4,242 ft</td>
    <td rowspan="2" class="right">7,289</td>
    <td class="center">5/5</td>
  </tr>
  <tr>
    <td class="center">August 27th</td>
    <td class="center">98</td>
    <td></td>
    <td></td>
    <td></td>
  </tr>
  <tr>
    <td>Why, AZ</td>
    <td class="center">August 18th</td>
    <td class="center">104</td>
    <td class="right">860 ft</td>
    <td class="right">480</td>
    <td class="center">3/5</td>
  </tr>
</table>
```
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.

ORDER ONLINE with the BEAN MACHINE

FAST <br />
FRESH <br /> TO YOUR DOOR <br />

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

Starbuzz coupon ticket
10. Write a **complete** HTML file and CSS file to display two places you would like to visit. The page should have a header, with title, and a footer with your contact information. The two places should be displayed side by side. Each should include a title, an image, and a paragraph describing the place. The text in header and footer sections should centered. All sections of the page should be surrounded by padding and a border.
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
<head>
  <title>Places to Visit</title>
  <link type="text/css" rel="stylesheet" href="travel.css" />
</head>
<body>
  <div id="header">
    <h1>Places to Visit</h1>
  </div>

  <div id="berkeley">
    <h2>Berkeley, California</h2>
    <p><img src="berkeley.jpg">
      Located on the San Francisco Bay, Berkeley is home to the first campus of the University of California.</p>
  </div>

  <div id="nz">
    <h2>New Zealand</h2>
    <p><img src="nz.jpg"> New Zealand has less than half the population of New York City but has incredible fauna and flora.</p>
  </div>

  <div id="footer">
    <p>Katherine St. John, <span class="email">stjohn@lehman.cuny.edu</span></p>
  </div>
</body>
</html>