ANSWER KEY Exam II
CIS 228: The Internet
Prof. St. John
Lehman College
City University of New York
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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

(f) <u>HTML</u> add an anchor to the page

(g) <u>CSS</u> change the margins of the text

(h) <u>HTML</u> set up a table

(i) <u>CSS</u> change the font used in the title

(j) <u>HTML</u> set up a form

4. Fill in the following table with the corresponding decimal or hexcode representation of the number. For partial credit, show your work.

Decimal	Hexcode
12	c
18	#12
22	15
175	#af
255	#ff

```
#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!":

```
<input type="submit" value="Go!"/>
```

(b) makes a text box where comments can be entered:

```
<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):

```
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."

```
<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:

```
<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>
       <li><a href="http://www.okeeffemuseum.org">O'Keefe
           Museum</a></li>
       <li><a href="http://www.moma.org">Museum of
           Modern Art</a></li>
     </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>
```
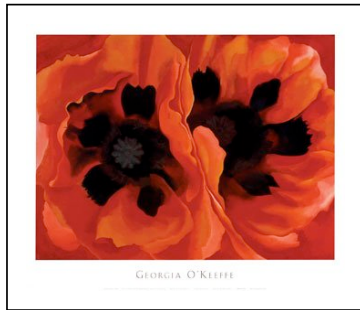
CSS:

```
img {
    border: solid black 2px;
    padding: 15px;
    margin: 10px;
}
#sidebar {
  width: 200px;
  float: right;
  border: 4px solid #eeeeee;
}
#footer {
  clear: both;
  font-size: small;
  text-align: center;
}
#georgia {
  color: #ee0000;
  width: 400px;
  border: #ee0000 dotted 1px;
}
#jasper {
  color: #0000ee;
  width: 400px;
  border: #0000ee dotted 1px;
}
.email {
    font-family: Courier,monospace;
}
```

My Favorite Artists

Georgia O'Keefe

American Painter, 1887-1986.

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.

```
body {
  font-family : serif;
}
h1, h2 {
```

```
    color : blue;
  }
  a:visited {
    color : red;
  }
  div img {
    border: solid thin black;
  }
```

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

City	Date	Temperature	Altitude	Population	Diner Rating
Truth or Consequences, NM	August 9th	93	4,242 ft	7,289	5/5
	August 27th	98			Tess 5/5 Tony 4/5
Why, AZ	August 18th	104	860 ft	480	3/5

The cities I visited on my Segway'n USA travels

```
<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 class="center">
                <table>
                  <tr>
                    <th>Tess</th>
                    <td>5/5</td>
                  </tr>
                  <tr>
                    <th>Tony</th>
                    <td>4/5</td>
                  </tr>
                </table>
              </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.)

```
<!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>Starbuzz Coffee</title>
    <link rel="stylesheet" type="text/css" href="starbuzz.css" />
  </head>
  <body>
    <div id="header">
      <img src="images/header.gif" alt="Starbuzz Coffee header image" />
    </div>
```

```html
<div id="award">
  <img src="images/award.gif" alt="Roaster of the Year award" />
</div>
<div id="main">
  <h1>QUALITY COFFEE, QUALITY CAFFEINE</h1>
  <p>At Starbuzz Coffee, we are dedicated to filling all your  caffeine needs
    through our quality coffees and teas.</p>
  <h1>OUR STORY</h1>
  <p> "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.</p>
  <h1>STARBUZZ COFFEE BEVERAGES</h1>
  <p> We've got a variety of caffeinated beverages to choose
    from at Starbuzz, including our
    <a href="beverages.html#house" title="House Blend">House Blend</a>,
    <a href="beverages.html#mocha" title="Mocha Cafe Latte">Mocha Cafe Latte</a>,
    <a href="beverages.html#cappuccino" title="Cappuccino">Cappuccino</a>,
    and a favorite of our customers,
    <a href="beverages.html#chai" title="Chai Tea">Chai Tea</a>.</p>
  <p>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
    <a href="form.html" title="form.html">Bean Machine</a>, and take
    the Starbuzz Coffee experience home.</p>
</div>
<div id="sidebar">
  <p class="beanheading">
    <img src="images/bag.gif" alt="Bean Machine bag" /> <br />
    ORDER ONLINE with the <a href="form.html">BEAN MACHINE</a> <br />
    <span class="slogan">FAST <br />FRESH <br />TO YOUR DOOR <br /></span>
  </p>

  <p>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.</p>
</div>
<div id="footer">
  &copy; 2005, Starbuzz Coffee<br />
  All trademarks and registered trademarks appearing on
  this site are the property of their respective owners.
</div>
<div id="coupon">
  <a href="freecoffee.html" title="Click here to get your free coffee">
    <img src="images/ticket.gif" alt="Starbuzz coupon ticket" />
  </a>
</div>
</body>
</html>
```

One possible answer:

```css
#main {
  padding:          15px;
  margin:            0px 330px 10px 10px;
```

```
}
#sidebar {
  padding:            15px;
  margin:             0px 10px 10px 10px;
  position:           absolute;
  top:                128px;
  right:              0px;
  width:              280px;
}
#footer {
  clear : both;
}
#award {
  position:           absolute;
  top:                30px;
  left:               365px;
  z-index:            99;
}
#coupon {
  position:           fixed;
  top:                300px;
  left:               -90px;
}
```

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.

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

CSS:

```
div {
  border: dotted black 2px;
  padding : 15px;
}
#footer, #header {
  clear: both;
  text-align : center;
}

#berkeley {
  width : 350px;
  float : right;
}
#nz {
  width : 350px;
}
.email {
   font-family: Courier, monospace;
}
```