CSE 154 sample midterm 2

1. HTML / CSS Tracing

b)

Draw a picture of how the following HTML/CSS code will look when the browser renders it on-screen. Assume that the HTML is wrapped in a valid full page with a head and body. Indicate a non-white background by shading lightly or by drawing diagonal lines like this.

```
a)
   <div id="coffee">
      *('0') *
      <l
          aaa
          id="c">bbb
          ccc
      </div>
```

```
#coffee {
   width: 50%;
  background-color: pink;
  margin-left: auto;
   margin-right: auto;
div > li { background-color: white; }
li {
      display: inline;
      margin: 20px;
      border: black 2px dashed;}
#c { width: 50%; }
```

```
<div>
     <div>foo</div>
     <div class="bar">
           <div class="foo">b</div>
           <div>a</div>
           <div class="foo">r</div>
     </div>
     <div class="foo">baz</div>
```

ant

</div>

```
.bar { float: right; }
div { border: solid black 1px; }
.foo { background-color: yellow; }
div > div { width: 20%; }
```

2. HTML/CSS Coding

(Based on "Lily Pond" theme from http://csszengarden.com/)

Write the HTML/CSS necessary to recreate the following appearance. No manual line breaks have been inserted.



A demonstration of what can be accomplished visually through CSS-based design. Download the sample httml file and css.file.

The Road to Enlightenment

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken CSS support.

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WaSP and the major browser creators.

The CSS Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. ...

Select Design

- Under the Sea! by Eric Stoltz
- Make 'em Proud by Michael McAghon and Scotty Reifsnyder
- Orchid Beauty by Kevin Addison
- Oceanscape by Justin Gray
- Sakura by Tatsuya Uchida

So What is This About?

There is clearly a need for CSS to be taken seriously by graphic artists. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list.

CSS allows complete and total control over the style of a hypertext document.

Participation

- Graphic artists only please. You are modifying this page, so strong CSS skills are necessary, but the example files are commented well enough that even CSS novices can use them as starting points.
- Zen editors modify the style sheet in any way you wish, but not the HTML.

Most of the HTML code is given to you; the code given may not be modified. The only change you may make to the provided HTML code is that you may add any number of div and span elements, possibly with id and/or class attributes, as targets for CSS styling. Write valid HTML and CSS code that would pass the W3C validators. The HTML text shown would appear inside the body of the page.

- The image header.gif appears once at the top-left corner of the page. This image contains the vertical "Zen Garden" text seen in the image above. Other content is shifted right by 130px to avoid covering this background image. The page's usual Zen Garden header text should not be shown because the image replaces it.
- Text on the page uses a font named "Verdana", or if that font is not available, the default sans-serif font available on the system. Text on the page is displayed in the color #471C47. The overall default font size is 9pt.
- The "A demonstration of..." paragraph's text is in italic.
- There is a first column of content, 26em wide, that displays "The Road to Enlightenment" and "Select Design" and so on. Behind that content is the image toad.jpg aligned to the bottom-right corner of the area. 1em of space separates text in this area from the other column to its right. A 3px-thick solid border of color ##A690AF separates the "Road to Enlightenment" content from the "Select a Design" content.
- The links in the "Select Design" area are in bold. (Other links on the page are not bold.)
- There is a second column of content, 21em wide, that displays "So What is This About?" and "Participation". It has a 2px-thick border of color #471C47 and a background color of #A690AF. It touches the right edge of the first column previously described. 1em of space separates text in this area from its border on all sides. If the page is resized to be wider than shown above, the columns remain in the same orientation, connecting on their edge.
- Headings in the second column are right-aligned.

You may not use absolute or fixed positioning when solving this problem.

Mark up the text on the next page with your div/span tags. If a tag can't fit in the space provided, write it in the margins and draw an arrow to where to insert it. Any elements not described use the default browser styles.

2. HTML/CSS Coding (writing space) - Mark up the HTML code below.

Write your CSS code here. Put your CSS in multiple columns if you need more writing space, or use scratch paper.

3. **PHP**

Write the PHP code for a self-submitting form page with two states:

When a **parameter is not passed**, output a form to select (from a dropdown box) an elevation profile to display. The options in the dropdown should be the names of **all files in the current directory** that end in .dat. as follows:

Elevate-It!

Select an elevation profile:



Elevate-It!

Elevation data for Ragnar Leg 25.dat:

The form on this page should submit back to itself. When a **parameter called profile is passed**, load the file of the given name, and output its overall elevation statistic. The data in the file will be in the following format:

0,7.1 49,7.1 68,7.2

Each line contains two numbers, separated by a comma. The first number represents a distance, and the second represents an elevation, both in meters. You should print a **cumulative gain/loss** which indicates the total amount of elevation gained or lost. For the partial file displayed above the total would be 21.4. Output this in the format below:

Total gain/loss: 408.7

Your code doesn't need to output a complete

HTML page; assume that your output will be put inside the page's body. You will receive a small deduction if you use print or echo statements in your solution.