CSE 190 M, Summer 2010 Final Exam, Part 1 (LAB), version A Thursday, August 19, 2010

Name:		
Section:	TA:	
Student ID #:		

Rules:

- You have **60 minutes** to complete this part of the exam. You may receive a deduction if you keep working after the instructor calls for papers.
- This test is open-book/notes.
- You may not use any computing devices, including calculators, cell phones, or music players.
- Unless otherwise indicated, your code will be graded on proper behavior/output, not on style.
- Please do not abbreviate code, such as writing ditto marks ("") or dot-dot-dot marks (...).
- If you enter the room, you must turn in an exam and will not be permitted to leave without doing so.
- You must show your **Student ID** to a TA or instructor for your submitted exam to be accepted.

Good luck!

Problem	Description	Earned	Max
1	HTML/CSS Tracing		15
2	HTML/CSS Coding		15
3	JavaScript/DOM		15
TOTAL	Day's Total Points		45

Problem	Description	Earned	Max
4	?		?
5	?		?
6	?		?
TOTAL	Day's Total Points		55

TOTAL Exam Total Points 100	TOTAL Exam Total Points		100
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1. HTML/CSS Tracing

.d { font-weight: bold; }

Draw a picture of how the following HTML and 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 background coloring by shading lightly or by drawing repeated diagonal lines like this. If you can't clearly write *italic* text, circle it instead.

HTML:

```
<div id="b">
                     Goodbye
    Hello
</div>
<div id="a">
    <em>Happy</em>
                     <em>Sad</em>
</div>
<div class="a c"> Monday Tuesday Wednesday </div>
<div class="b"> Thursday Friday Saturday </div>
<div>
    <div id="d" class="c">
       <em>SUNDAY</em>
    </div>
</div>
                                       CSS:
div { padding: 2em; }
                                         .b { float: left; }
#a { border: 3px dashed black; }
                                         .c, .b { border: 5px dotted red;
#b { background-color: yellow; }
                                                  margin: 1em; width: 5em; }
.c { float: right; }
                                         p em { text-decoration: underline; }
```

2. HTML/CSS Coding

Write the HTML and CSS code necessary to recreate the following appearance on-screen. No manual line breaks have been inserted into the text.



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 code** that would pass the W3C validators. Assume that the given HTML text would appear inside the body of the page.

- Text on the page uses a sans-serif font. The area around the outside of the page has a bluish color of #0088EE.
- The central content area has a **white background** and a **3px-thick solid** border using the color **#005588**. The content area is **centered** within the page and occupies **85%** of the page width.
- The list of links appears without bullets displayed all in one line, centered on the page. Each link's text is bold, and the link has 1em of horizontal space between it and the other neighboring links.
- Each news story on the page has an image that **hovers** to the right of other content, which wraps around it as necessary. There is **1em** blank space around stories on all sides. No two stories should "collide" together; each story should be **large enough** on the page to fit its content.

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 it should be inserted. Though 3 articles are shown above, your solution should work for any number of stories. (Don't rely on article-specific IDs or on there being exactly 3 of them.)

Write your answer on the next page.

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

```
<img src="brunologo.png" alt="logo" />

    <a href="home.html">HOME</a>
    <a href="vids/">VIDEOS</a>
    <a href="shirt.html">FUNNY SHIRTS</a>
    <a href="trailer.html">BRUNO MOVIE TRAILER</a>
    <a href="photos/">PHOTOS</a>
    <a href="http://dvdshop.com/">DVD SHOP</a>

<img src="brunouniversal.jpg" alt="Bruno at Universal" />
<h2>Universal Responds to Lawsuit</h2>
Movie studio Universal Pictures on Friday responded to a lawsuit filed...
<img src="paulaabdul.jpg" alt="Paula Abdul" />
<h2>Paula Abdul Talks About Being in Bruno</h2>
Paula Abdul accepted an invite last year to receive an award as ...
<img src="eminem.jpg" alt="Eminem" />
<h2>Eminem Admits He Was Involved</h2>
Three days after storming out of the MTV awards, Eminem admits to RapRadar...
```

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

3. JavaScript/DOM

Write the **JavaScript code** to add behavior to the following page that has a user interface for entering grades on homework assignments. You will compute the percentage of points earned, with an optional **curve**. When "Compute!" is clicked, your JS code should use the values in the text boxes to compute the percentage (**rounded** to the nearest percent). If the "Curve +5" checkbox is checked, add +5 percent up to a maximum of 100% total.

You should insert the percentage into the page as a new div added to the end (bottom) of the existing page section with the id of resultsarea. If the overall percentage is 60% or more, give your newly created div a CSS class of pass; otherwise give it a class of fail. Each time the user clicks "Compute!", you will insert such a new div; this means that several divs would be there after several clicks of "Compute!".

In the code shown there are 3 assignments, but your code should work for any number of assignments ≥ 1 .

When "Clear" is clicked, all text in all of the input text boxes should be erased.

Assume valid input; that is, assume that when "Compute!" is clicked, the user will have already typed valid text into every box that can be interpreted as an integer. You may assume that **Prototype** is also included in the page.



These screenshots show the initial state, and state after scores have been typed and "Compute!" has been clicked.

Grade Calculator	Grade Calculator	Grade Calculator	Grade Calculator
HW /	HW 9 / 10	HW 9 / 10	HW 5 / 10
HW /	HW 7 / 10	HW 7 / 10	HW 11 / 15
HW /	HW 16 / 20	HW 16 / 20	HW 11 / 21
\Box Curve +5 ?	\Box Curve +5 ?	☑ Curve +5 ?	\Box Curve +5 ?
Compute! Clear	Compute! Clear	Compute! Clear	Compute! Clear
	80	80	80
		85	85
			59

3. JavaScript/DOM (additional writing space)