

Final Exam: CS2a/Spr08

This is a three hour open book/open note exam, but you may not use any electronic devices (computers, phones, ipods, etc.) during the exam.

I. Binary, Decimal, and Hex

- A. Convert the decimal number 1492 into binary
- B. Convert the hexadecimal number DECAF007 into binary
- C. Convert the dotted decimal number 10.0.100.200 into binary and hex

II. HTML

The screenshot shows a web browser window with the title "HTML Problem". The address bar shows "file:///Users/tim/". The page content is as follows:

Write the HTML for this page

The image at the right is in brandeis.jpg and has width 200 pixels.

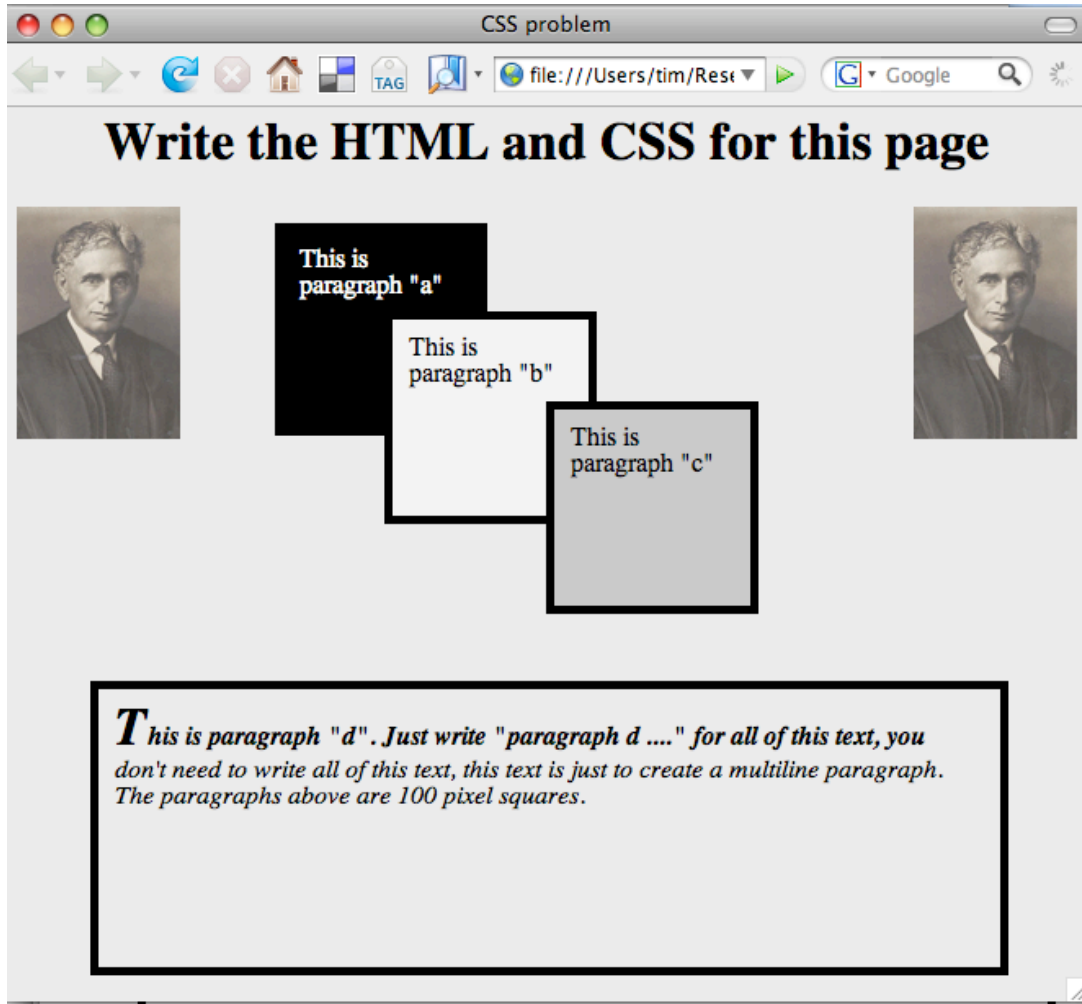
- [to the Brandeis home page](#)
- [to the table below](#)

An example of a table

This is a table		
Here is Louis again:		Louis is to the left of this
Louis is above this cell	and above this one also	THE END



III. CSS



IV. Servlets

This problem will walk you through a small auction servlet that will allow people to bid on objects. We assume the auction house has given numbers to all of the objects to be bid upon (call it the objectID). The database will store the objectID being bid upon, the bidders email address, and the amount they are bidding in whole dollar amounts.

- A. Write a servlet "initDB.servlet" that creates a database "bids" which contains the information above. That is, the objectID, the bidders email address, and the amount they are bidding.
- B. Write an HTML page "makebid.html" that asks the user for their email address, the objectID that they are bidding on, and the amount they are bidding, and sends it to "recordbid.servlet" Do not use any CSS and make the form as plain as possible! Keep it simple.
- C. Write the servlet "recordbid.servlet" that takes the information from the "makebid.html" page and stores the information in the "bids" database table. It should also show a table of all other bids for that object ordered in decreasing order of the bids