Midterm Exam Wednesday 2/26/2013

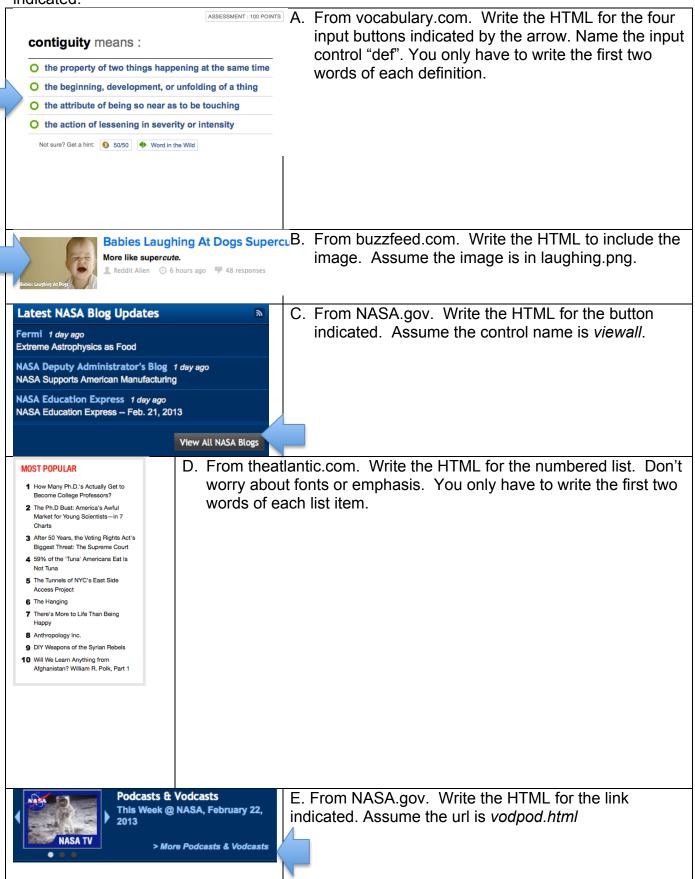
A few things before we start...

- 1. You are allowed a two-sided, one-page crib.
- 2. You may not use your textbooks, notes or any other materials.
- 3. You may not use your cell phone. If you have to leave the room, you may not take your cell phone with you.
- 4. You may not use a calculator.
- 5. Read each question carefully and write your answer in the place indicated.
- 6. Don't cheat.
- 7. Close your html tags, be careful with quotes, be careful with open and close php tags. Indent your php and html to make the purpose clear. Make sure you open and close {}. Good luck.



"On the Internet, nobody knows you're a dog."

Part I. HTML [15 points] Below is are portions of webpages. Write HTML for the pieces indicated.



Part II. PHP Conditionals, Arrays, Loops, Functions. [14 points]

Consider the following variables and arrays.

Part A. For each question below, show the output that would result (what the user would see in the browser window) as a result of PHP execution of the fragment shown. Be careful. Look closely at the details.

	Fragment (2 points each)	Output
1	<pre><?php \$scores = explode(",", \$datastring); echo "Data[2] is ". \$scores[2]; ?></pre>	
2	<pre><?php \$units = ceil(\$distance * 7); \$fare = \$base + ((\$units - 1.0) * 0.4); echo "Fare is \$fare"; ?></pre>	
3	<pre><?php \$new=array(); \$i=1; foreach (\$teams as \$key=>\$value) {</pre>	

Part B. Write a php function called findmin. Findmin has one argument: an array of numbers. Findmin returns the smallest value in the array. Here is an example call. (4 points) \$scores = array(12,4,56,99,34,42); \$smallest = findmin(\$scores);
Part C. Write a function with two arguments: an array of strings and name. Here is an example call the the function. \$fruits = array("apple", "orange", "banana", "grapefruit", "kiwi", "mango"); \$name = "fruits"; make_checkboxes(\$name, \$fruits);
The function should output html to create a checkbox for each array element. The GET (or POST) variable created by the input control should be an array indicated by the function argument name. Don't worry about making the check boxes sticky. (4 points)

Please turn the page.

Part III – Complete PHP Script [20 points] Consider the web page shown on the right. This page is used to calculate how many tables of the selected type are needed for a function. The page was produced by the incomplete html/php below and the xml is shown too. Note that the inputs are sticky.

```
For your party with 99 guests...

There are 8 seats per 60 inch Round Table.
You will need 13 tables.

Let me find how many tables you need!

How many guests? 99

What kind of table? 60 inch Round Table $
```

```
<?
                                 <rentals>
                                 $xml = new SimpleXMLElement(
file_get_contents("rental.xml"));
                                   <description>36 inch Round Table</description>
                                   <maxseating>4</maxseating>
<!DOCTYPE html>
                                 <html>
                                 <description>48 inch Round Table</description>
<head>
 <title>Rentals</title>
                                   <maxseating>6</maxseating>
 <style>
                                 body{
                                 font-family: arial;
                                   <description>60 inch Round Table</description>
                                   <maxseating>8</maxseating>
 </style>
                                 </head>
<body>
                                   <description>72 inch Round Table</description>
                                   <maxseating>8</maxseating>
<?php
if (isset($_GET['submitted']))
                                 handleform($xml);
                                 displayform($xml);
                                   <description>6 ft x18 inch Conference</description>
?>
                                   <maxseating>3</maxseating>
                                 </body>
                                 </html>
                                   <description>8 ft x 18 inch Conference</description>
<?php
function handleform($xml){
                                   <maxseating>4</maxseating>
     // You write this
                                 function displayform($xml){
                                   <description>Card Table 30 inch x 30
     // You write this
                                 inch</description>
                                   <maxseating>4</maxseating>
function makeMenu($menuname, $xml){
                                 // You write this
                                 </rentals>
}
?>
```

Complete the missing functions on the next page. Note that your function displayform() should call your function makeMenu().

Complete the two functions displayform(\$xml) and handleform(\$xml). Write a separate function in makeMenu(\$menuname, \$xml) to display the selection menu.							
<pre>function handleform(\$xml) {</pre>							

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/*	Reme	ember	to	wri	te d	a se	∍parate	function	n makeMen	ı to	create	the	table	menu	*/