Spring '12 CIS 115 Midterm Review

You may bring one page of notes, front and back.

You may bring a calculator but shouldn’t need one.

Questions will be in short-answer format with partial credit for partial answers.

Questions will require you to read HTML and JavaScript code, but not write code.

Topics:
- HTML `<head>`, `<body>`, `<img>`, `<div>`, `<br>`, and `<script>` tags
- Math and relational operators (i.e., `+`, `-`, `*`, `/`, `<`, `<=`, `>`, `>=`, `==`, `!=`)
- If/else if/else conditional statements, for/while repetition statements
- Math.floor(), Math.random(), document.getElementById(), and alert() functions.
- HTML `<input>` tag (text and button types only), onclick handler
- Functions: advantages of using, parameters, return values; objects and arrays: creating and accessing

Sample questions:

1. [5] Consider the following code:
   
   ```javascript
   var x = 15;
   if (x < 10) {
       alert("Green");
   }
   else {
       alert("Yellow");
   }
   
   What is printed by the above code? Why?
   
2. [5] Consider the following code:
   
   ```javascript
   function f(list) {
       var x = 0;
       for (var i = 0; i < list.length; i++) {
           x = x + list[i];
       }
       return x
   }
   
   alert(f([1, 2, 3, 4]));
   
   What is printed by the above code? Why?