1. The PHP keyword "static" is used to:
   a.) make the PHP code of your scripts visible to the client like JavaScript.
   b.) declare global variables visible to all other functions.
   c.) declare a special data type used for random numbers.
   d.) declare a variable that maintains its value, but is visible only within its function.
   e.) create an array of fixed length.

2. True or false: It is possible to use an index other than integer values starting at 0.

3. True or false: It is possible to declare an array where the elements are of mixed data types.

4. True or false: Because of the odd indices allowed by PHP, all element initializations must have an index, e.g., you cannot define a new array element with $array[1] = 45.

   Use the following array declaration for the next three problems.

   ```php
   $numbers = array(0=>23, "second"=>45, 3=>13, "fourth"=>96);
   ```

5. Assume an additional element were added to the array $numbers with the code $numbers[1]=9; After which element would it be included in the array?
   a.) 0  b.) "second"  c.) 3  d.) "fourth"  e.) Can't be predicted

6. Fix the code below to ensure that it will not print "Array element 3 is Array[3]" and instead print "Array element 3 is 13"

   ```php
   print "Array element 3 is  $numbers[2] ";
   ```

7. The code `print $numbers[1];` will print:
   a.) 23  b.) 45  c.) 13  d.) 96  e.) 1  f.) null (not defined)

   Use the following code for the next two problems.

   ```php
   foreach ($a as $b => $c) print $b;
   ```

8. Within the foreach loop, which variable name represents the current array index being evaluated?
   a.) $a  b.) $b  c.) $c

9. Within the foreach loop, which variable name represents the current array element being evaluated?
   a.) $a  b.) $b  c.) $c

10. Which "printf" specifier is used to format an element as binary?
    a.) %c  b.) %d  c.) %u  d.) %x  e.) %o  f.) %f  g.) %b

11. In the space below, write the PHP code to initialize a 2x2 array representing the matrix

    $\begin{bmatrix}
    1 & 2 \\
    3 & 4
    \end{bmatrix}$