WEBD 236 Homework 5

Answer the following questions based on your reading of the text book, any supplemental material, and the instructor's presentation this week. If you use an external source (i.e. a web-page, the required textbook, or an additional book) to help you answer the questions, then be sure to cite that source. You should probably always be citing a source.

Short answer

1. **[3 points]** When using sessions in PHP to manage login information, why is it critical to always use an encrypted https connection?

2. **[2 points]** Given the following snippet of code, at what index value is the last string stored?

```php
$arr = array();
$arr[4] = 'four';
$arr['three'] = 3;
$arr[] = 'What\'s my index?';
```

Programming

3. **[5 points]** Write a function `removeAllValuesMatching($arr, $value)` that takes an associative array and a value as a parameter and returns a new associative array in which any array value matching `$value` is removed. In other words,

```php
$arr = array(
    'a' => "one",
    'b' => "two",
    'c' => "three",
    'd' => "two",
    'e' => "four",
    'f' => "five",
    'g' => "three",
    'h' => "two"
);
print_r(removeAllValuesMatching($arr, "two"));
```

would print:

```
Array
(
    [a] => one
    [c] => three
    [e] => four
    [f] => five
    [g] => three
)
```

4. **[5 points]** Write a function `removeDuplicates($arr)` that takes an associative array as a parameter and returns the same associative array except with all duplicate values removed. You may not use the function `array_unique` for this problem. For example:

```
$arr = array(
    'a' => "one",
    'b' => "two",
    'c' => "three",
    'd' => "two",
    'e' => "four",
    'f' => "five",
    'g' => "three",
    'h' => "two"
);
print_r(removeDuplicates($arr));
```

Would print:

```
Array
(
    [a] => one
    [e] => four
    [f] => five
)
```

5. **[5 points]** Write a function `findSpellings($word, $allWords)` that takes a string and an array of dictionary words as parameters. The function should return an array of possible spellings for a misspelled `$word`. One way to approach this is to use the `soundex()` function to find words in `$allWords` that match the soundex for `$word`.

Submission instructions

Create a single Word document with the solutions to the short answer questions. Create a single PHP file with your solutions to the programming problems along with suitable test cases that demonstrate that they work. Follow proper coding conventions (indentation, commenting, etc.) that you would have learned in previous courses.

Submit both the PHP file and the Word document to the dropbox for the course.