Source File: `~/public_html/lab19.php`
Input: HTML/PHP Form or URL
Output: Standard output (HTML Code)
Value: 4

In this assignment extend Lab 17 to create a new application that will allow a user to enter a Jumble word and be shown all possible solutions. The word will be provided via input from a form or a URL. The solutions should be numbered and appear in lexicographically increasing order.

The dictionary to be utilized for this assignment is located in the folder `/usr/local/4312/data/19/` and has a filename of `wordList`. The file has one word per line and slightly more than 166,000 entries. The words are in no particular order and appear in mixed case. The `file` command (see p. 262) can be used to read an entire file into an indexed array. See

`http://php.net/manual/en/function.file.php`

Do **not** copy this file to your local space. Use the full path

`/usr/local/4312/data/19/wordList`

when you specify the filename.

The program needs to be able to handle the following error cases:

- variable `word` missing
- variable `word` empty
- variable `word` contains non-alphabetic characters
- variable `word` has length less than four (4) or greater than seven (7)

The output should be formatted as shown in the instructor's version of this program.

Some additional notes for this assignment:

- Insert an HTML comment at the top of the document identifying you as the author, the class, and the assignment number.
- Add an echo statement to the beginning of the script section that will display your name, the course number, and the assignment number.
- Since this assignment uses several PHP code blocks, it's always a good idea to check for syntax errors. You can do this by using the `-l` option to the `php` command at the command line as in

```
1 newuser@csunix ~/public_html> php -l lab19.php
2 No syntax errors detected in lab19.php
```

- You should always validate the rendered HTML code. The validator is discussed near the top of p. 6 and in Appendix A on pp. 629–631. By including the following link and image, a user will be able to click the image and receive a report from the validator.

```
1 <?php
2   $location = 'https://' . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
3   $location = urlencode($location);
4   echo '<a href="https://validator.w3.org/nu/?doc=' . $location . '">';
5 ?>
6   <img src="https://www.w3.org/QA/Tools/I_heart_validator"
7    alt="I heart Validator logo" height="31" width="80" />
8 </a>
```

After the document is valid, open it in your Web browser to see how it renders.

Upon completion of this assignment, submit your source file via Blackboard. Only submit your PHP source; do **not** submit the form (your program will be invoked via a URL).