

Source File: ~/public.html/lab05.php
Input: URL
Output: Standard Output
Value: 2

Write a program that accepts three integers that represent the lengths of the sides of a triangle and determines the following attributes by calling the following functions:

- isTriangle:** returns true if the numbers can represent lengths of the sides of a triangle (the sum of any two of the numbers must be greater than the third) and false otherwise.
- isEquilateral:** returns true if **isTriangle** is true and the triangle is equilateral (the three sides are equal) and false otherwise.
- isIsosceles:** returns true if **isTriangle** is true and the triangle is isosceles (at least two sides are equal) and false otherwise.
- isScalene:** returns true if **isTriangle** is true and the triangle is scalene (no two sides are equal) and false otherwise.

Your program will accept a string via a URL. This string should be tokenized using the space character as a delimiter. Only print the return value from **isEquilateral**, **isIsosceles**, and **isScalene** if the lengths can represent the sides of a triangle. A sample file that can be used as a starting point for this assignment can be found at

<https://www.cs.angelo.edu/~mmotl/4312/labs/05/>

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 lab05.php
2 No syntax errors detected in lab05.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 
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.