IT211 Lab 6
v1.2
Score: _____/14

The purpose of this lab is to give you experience writing jQuery and migrating away from jQuery.

Specifications

You will create two versions of the same web page: one that uses jQuery exclusively and one that uses vanilla JavaScript exclusively.

You will create a simple page that can compute the area of a triangle. There will be three inputs on the page: one for each edge of the triangle. The inputs can be any real number. There should be a way the user can submit their inputs, either a button and/or enter key.

1. Using PhpStorm, create an HTML and JavaScript (.js) file in the "jquery" directory.
   a. jQuery must be used exclusively to read from and modify the DOM.
2. After computing the area, you will create a new HTML element via jQuery that contains the answer and add it to the DOM. Subsequent equations will have new elements that appear underneath each other.
3. When your jQuery version is complete, create an HTML and JavaScript (.mjs) file in the "vanilla" directory.
4. Re-write your jQuery version of the script using only vanilla JavaScript.
   a. Use this website to help you: https://youmightnotneedjquery.com/
   b. Your vanilla JavaScript version should be structured the same way as your jQuery version.

The use of CSS is optional.

Submission

The submission for this lab is the ID for the commit you want graded. Please submit the commit ID on Canvas.

Tips

- How to use jQuery without downloading it: https://releases.jquery.com/
- Use this link for help calculating the area of a triangle: https://www.cuemath.com/measurement/area-of-triangle/
  - As an example, if a user types in 5, 6, and 7, the result should be 14.7.
    - This answer was rounded to the nearest tenth, which is acceptable.
- You will need to use Heron's Formula.
  - Area = $\sqrt{s(s-a)(s-b)(s-c)}$ where 's' is the semi-parameter.
  - The semi-parameter is (a + b + c)/2.
- Use the `Math.sqrt()` function.
  - Example: `Math.sqrt(16)` would return 4.