## Day 5 Homework

Try placing today's functions all together in a separate file and using require\_once to reference them from your HTML document!

- 1. Write function stringTimes(\$str, \$times) that returns the string \$str repeated \$times times. For example, stringTimes('blargle', 3) should return blargleblargleblargle.
- 2. Write function letterCount(\$str, \$letter) that returns the number of times \$letter occurs in \$str. For example, letterTimes('Mississippi', 'i') should return 4.
- 3. Write function has 456(\$array) that returns true if \$array contains the sequence 4, 5, 6 somewhere and false otherwise.
  - For example, has456(array(0, 1, 2, 5)) would return false, while has456(array(0, 4, 5, 6, 4)) would return true, since the array contains 4, 5, 6 in that order.
- 4. Write function speedingTicket(\$speed, \$limit) that calculates the cost of a speeding ticket based on your actual speed, \$speed, and the speed limit, \$limit.

If you were speeding by less than 10 mph over the limit, you will not get a ticket.

If you were going between 11 and 15 mph over the limit, your ticket will be \$50 + 2 times the amount over the limit.

If you were going between 16 and 20 mph over the limit, your ticket will be \$75 + 3 times the amount over the limit.

If you were going more than 21 mph over the limit, your ticket will be \$150 + 5 times the amount over the limit.

Your function should return the cost of the ticket, or 0 if no ticket was given.