**Student Name/Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Rubric:**

\_\_\_\_\_\_ / 10 Asks user for number of trials and which strategy to use

\_\_\_\_\_\_ / 20 Runs that number of times and tallies wins and losses

\_\_\_\_\_\_ / 5 Prints out winning and losing numbers and percentages

\_\_\_\_\_\_ / 5 Formatting/comments/variable names

\_\_\_\_\_\_ / 10 Assignment submitted correctly and on time

\_\_\_\_\_\_\_ Total

**Description:**

Now that you’ve got the Monty Hall problem up and running, use that code to verify the probabilities using both the stick and switch methods. You’ll copy most of your code from last week into a loop, remove the user input for each individual trial (randomly choose a door each time instead of asking), and then pretty much be all set. Ask the user how many trials they’d like to run and if they want to stick or switch each time. Then print out how many wins there were with a winning percentage and how many losses there were with a losing percentage. For example, my output looks like this (bold/green text is user input):

Enter number of trials you'd like to run:

**1000**

Do you want to simulate using stick or switch?

**switch**

Wins: 671 67.1%

Losses: 329 32.9%

Comment your code as usual and email it to me with the subject line **[ICS] Week 14 LastName.**