Extra Credit #2

Due: May 9, 2014 (Note 1 week extension)  Points: 15

Take the program “monty3.py” that you wrote for Homework #2 and add another method. Specifically, if the contestant decides whether to change doors at random, how does that affect the probability of her winning?

To see this, write a third routing montyrandom() that randomly determined whether the contestant should change doors, returning the Boolean True if the contestant wins and False if not.

Then draw a third bar on the bar graph and label it appropriately.

The text output should be a third line that looks like this (again, your numbers may vary):

Randomly switching wins: 0.4975200 (49752 games)

and your histogram like this:

Submit. Name your program “montyex.py” and submit it to the Extra Credit #2 area for this class on SmartSite.