# 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 randmly 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:
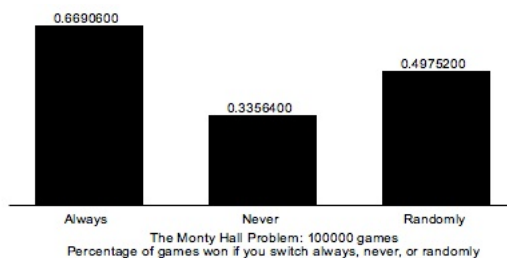


**Submit**. Name your program "montyex.py" and submit it to the Extra Credit #2 area for this class on SmartSite.