

STAT 457 , Fall 2010

Lab # 9

Now It is Your Turn

Topics Covered:

- We have given you some R control statements, and a sampling of how they might be done in simulation situations in Lab 7 and Lab 8.
- Now, let us see how you might use these for the simulations described below. The problems shown below are reprinted from the bottom of last week's lab.
- For those who are confused, let me reiterate that this lab will be due on Nov 9, the week after voting day, Nov 2 (which we will have off from school)

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DON'T WAIT UNTIL THE LAST MINUTE TO DO THESE PROBLEMS.

[1] What if we had a 1 and 1 and 1 situation?--any time you made a free throw you get another try, up to 3 tries! What points could be made per game, in a 25 game season, if a 72%, 80%, 85%, player took 5 of these special foul situation shots per game?

[2] How many times do you expect to roll a fair die until you get the same face as previously rolled (i.e., "2 in a row")?

[3] How many times do you expect to roll 2 dice until you get the same sum you previously rolled on the last roll?

[4] Produce a histogram of results of sums from rolling 3 dice 500 simulated times. Which interval of sums comes up most often? Does this result seem reasonable to you Why or why not?

[4 ALT] See me about doing a simulation in your major, to substitute for any one of the problems [1] through [4] above. See me soon on this, however—don't wait until the last minute.