

## LECTURE 5. A Day in Las Vegas

**Problem 1.** In poker, I have a straight (five cards in numerical sequence—suits not relevant) and you have a flush (five cards of the same suit—sequence not relevant). Who wins and why?

**Problem 2.** Where does a player in a casino have the better odds: at the crap table or the roulette wheel?

**Problem 3.** (a)What is the probability of rolling five 7's in a row? (b)Given that you have rolled four 7's in a row, what is the probability of rolling a 7 on the next roll?

### TOPICS

A.Poker. Problem 1.

B.Craps and Roulette. Problems 2 and 3.