Discussion 7

1. How many length 8 bitstrings with density 4 start with a 1 and end with a 1?

2. How many ways are there to arrange 4 women (Anna, Beth, Charlotte, Diana) and 3 men (Ethan, Frank, Gregory, Henry) in a line so that a woman is first and a woman is last?

3. How many permutations of the integers 0 through 9 have all the odd digits before any even digits?
4. How many permutations of the integers 0 through 9 alternate between even and odd digits?

5. What is the probability that a five-card poker hand contains at least one ace?

(cf. Rosen Ch. 7.1, Exercise 13)