

## CS/MA320 HW6, FALL 2009

Your solutions are due in class on Monday, November 23, or under my door by Tuesday, November 24 by 2:00 PM, and solutions will be on-line later that evening. There will be no class on Wednesday, November 25 (the day before Thanksgiving) nor for the rest of the week, and Quiz 5 on Hw6 will be on Monday, November 30.

Reading Assignments for these questions are what was covered in class notes. In particular, there was no coverage of Section 5.6.

6.1 Exercises With Solutions: pg. 398 & ff: 13, 15, 25.b,

Exercises For You To Solve: pg. 98 & ff: 14, 16, 24.d, 26.b, 38.a-c.

6.2 In reading, skip Example 14 to end of Section.

Exercises With Solutions, pg. 414 & ff: 7 (Hint: you can write down all permutations -- or ask why one before the other would be preferred), 19, 23.

Exercises For You To Solve, pg. 414 & ff: 6, 8.a-c (In 8.c, think of 1&2 glued together, then permuted), 18, 24 (count them all), 34 (probability of  $k$  successes in  $n$  trials is  $C(n,k)p^k(1-p)^{n-k}$ ).

6.3. Exercises With Solutions: pg. 424 & ff: 1, 3 [in notes]

Exercises For You To Solve: pg. 424 & ff: 2, 4, 6.

6.4. Exercises With Solutions, pg. 439 & ff: 5, 13, 23.

Exercises For You To Solve, pg. 439 & ff: 6, 12 (this is a geometric progression), 24.