

**Problem Set 7**  
CPSC 411 Analysis of Algorithms  
Andreas Klappenecker

**The assignment is due next Monday, April 6, 2009, before class.**

**Warm up Exercises**

**Exercise 1.** *Solve Exercise 1.2 in the lecture notes “A Brief Introduction to Probability Theory”.*

**Exercise 2.** *Solve Exercise 1.3 in the lecture notes “A Brief Introduction to Probability Theory”.*

**Exercise 3.** *Solve Exercise 1.5 in the lecture notes “A Brief Introduction to Probability Theory”.*

**Exercise 4.** *Solve Exercise 1.6 in the lecture notes “A Brief Introduction to Probability Theory”.*

**Exercise 5.** *Solve Exercise 1.7 in the lecture notes “A Brief Introduction to Probability Theory”.*

**Exercise 6.** *Solve Exercise 1.11 in the lecture notes “A Brief Introduction to Probability Theory”.*

**An Interesting Application.**

**Exercise 7.** *Solve Problem 5-1 a) on page 118 of our textbook.*

**Exercise 8.** *Solve Problem 5-1 b) on page 118 of our textbook.*