## MATH 113: DISCRETE STRUCTURES HOMEWORK FOR WEDNESDAY WEEK 9

Problem 1. What is the expected value of the number of digits equal to 3 in a 4-digit positive integer?

Problem 2. Let $\pi$ be a permutation of $\underline{n}$. The index $i$ is called an excedance of $\pi$ if $\pi(i)>i$. How many excedances does the average permutation of $\underline{n}$ have?

