CS 242 DISCRETE STRUCTURES FOR COMPUTER SCIENCE
SPRING 2014

Home Work # 1
Due: February 5, 2014

Problems on Section 1.1

[1- 5] Chapter 1, Section 1.1: Problems 10, 15, 20, 30, 32

Problems on Section 1.2

A king posed the following challenge to a prisoner. He set up three rooms one of which contained a lady and the other two contained tigers. The rooms had signs that read as follows:

I	II	III
A TIGER IS IN THIS ROOM	A LADY IS IN THIS ROOM	A TIGER IS IN ROOM II

The king explained that at most of the three signs was true. The challenge was to open the room that contained the lady. Which room should the prisoner open? Justify your answer.

[7 – 9] Chapter 1, Section 1.2: Problem 12, 28, 42

Problems on Section 1.3

[10 – 13] Section 1.3: Problems 8, 20, 41, 58

Problems on Section 1.4

[14 – 16] Section 1.4: Problems 8, 16, 28