

## CS/MA320 HW2

Solutions are due in class, Monday, Sept. 28 or under my door on Tuesday, Sept 29 by 2:00 PM (NO LATER OR IT WON'T COUNT!). Solutions will be on-line by Tuesday evening and Quiz 2 will be on Wednesday, Sept 30, in the first 20 minutes.

First, I list Reading Assignment & Solved Exercises to look at.

2.1 Reading: Study everything but skip Exercise 20.

Exercises With Solutions in 2.1: pg. 119: 5.a-d, 7.a-e, 15.

Exercises For You To Solve in 2.1: pg. 119: 2.a, 8.a-c&g, 16, 20.

2.2 Reading: Skip last part on Computer Representation.

Exercises With Solutions in 2.2: pg. 130: 3, 7, 15.a-b, 35

Exercises For You To Solve in 2.2: pg. 130: 4, 14 (Hint: consider  $(A - B) \cup (A \cap B)$  and another union of two sets considered), 36.

2.3. You can skip Example 26, rest is important.

Exercises With Solutions in 2.3: pg. 146: 1, 7.a-b, 19, 29.

Exercises For You To Solve in 2.3: pg. 146: 2, 6.a&b&d., 18, 30 (Hint: Answer is Yes.)

2.4. You can skip Special Integer Sequences pp 151-153, but start reading again at Summations, p. 153. Then can skip Ex. 16 and 17, but start again at Cardinality, and read the rest except the proof details of Ex. 21.

Exercises With Solutions in 2.4: pg. 160: 3.a-d, 9.c-f, 19.

Exercises For You To Solve in 2.4: pg. 160: 4.a-d, 10.a-c, 20. (Note: the identity given for use in Exercise 20 has a right-hand side of  $1/k$  minus  $1/(k+1)$ , NOT a double division:  $1/(k-1)/(k+1)$ .)

4.1. You can skip Examples 7, 10, and 13 and everything following.

Exercises With Solutions in 4.1: pg. 279: 5, 21, 65. (Uses gossip problem description just prior.)

Exercises For You To Solve in 4.1: pg. 279: 6, 20, 66.