

MATH 302. Discrete Mathematics
Assignment 3. Due on Wednesday, February 25, 2009

Read: Sections 1.6–1.7, 3.1–3.2

Problems to be graded:

§1.6: 18, 23, 30

§1.7: 8, 21

§3.2: 18, 20, 30, 38.

In addition, do

1. Given a list of integers a_1, a_2, \dots, a_n , ($n \geq 100$), which may not be sorted, devise an algorithm that finds the second largest integer from the list.

(You can either write in pseudocode, or use plain English. Please do not use any specific language, as the grader may not be familiar with that language.)

Other problems:

§1.6: 26, 32, 38, 39,

§1.7: 10, 13, 17.

§3.2: 1, 2, 3, 4, 6, 8, 9, 19, 24, 31, 39, 40, 41, 51, 64.