CS 2022/ MA 2201 Discrete Mathematics
A term 2020

Homework 3, due Monday, September 21

READING: Chapter 1, 2, 3, 4.

1. Exercise 8 on page 229. (15 points)
2. Describe an algorithm for finding the two smallest integers in a finite sequence of distinct integers. What is the worst-case complexity of your algorithm (counting comparisons only)? (15 points)
3. Exercise 10 on page 82. (20 points)
4. Exercise 20 on page 83. (15 points)
5. Exercise 12 on page 95. (15 points)
6. Exercise 18 on page 95. (20 points)