CS180 Fall 19 Homework 2

assigned 10/9, LATEST due date 10/16 at 9:59 am (or earlier)

All algorithms/proofs should be in bullet form: step by step or psuedo code.

- 1. Exercise 3 Page 107
- 2. Exercise 4 on Page 107
- 3. Exercise 9 on page 110
- 4. Exercise 11 on page 111
- 5. Exercise 12 on page 112
- 6. An array of n elements contains all but one of the integers from 1 to n+1.
 - (a) Give the best algorithm you can for determining which number is missing if the array is sorted, and analyze its asymptotic worst-case running time.
 - (b) Give the best algorithm you can for determining which number is missing if the array is not sorted, and analyze its asymptotic worst-case running time.