COP 3503 Honors – Homework 3 (Collaborative)

Due Date: October 3, 2014

1. Develop an algorithm that given an array $A$ with $n$ elements and an integer $k \leq n$ determines the $k$ numbers in $A$ that are closest to the median of $A$. Your algorithm should not use sorting.

2. Cormen et al., page 200, Exercise 8.3-2

3. Cormen et al., page 223, Exercise 9.3-8

4. Cormen et al., page 370, Exercise 15.1-3