CSE 347 Analysis of Algorithms March 9, 2017

Homework 4

Instructor: Brendan Juba/Robert Utterback *Due: March 28, 2017, 11:59 PM*

Reminder: You may work in groups and use outside sources. But, you must write up solutions in your own words and properly reference your sources for each problem. This includes listing your collaborators and properly citing any sources you use. Solutions to each problem must be electronically typeset and submitted online via Blackboard. Instructions appear in the E-Homework Guide: `http://www.cse.wustl.edu/~bjuba/cse347/s17/ehomework/` For all problems in this course, your solutions should provide a proof of *both* correctness and a running time bound, unless the problem explicitly states that this is not necessary.

1. *Kleinberg & Tardos* – Chapter 7, exercise 27
2. *Kleinberg & Tardos* – Chapter 7, exercise 29
3. *Kleinberg & Tardos* – Chapter 8, exercise 4
4. *Kleinberg & Tardos* – Chapter 8, exercise 18