Illinois Institute of Technology Department of Computer Science

Homework Assignment 6

CS 430 Introduction to Algorithms Spring Semester, 2017

Due: Monday, March 27

1. Prove that $A_3(j) > \text{tower}(j)$, where

$$tower(n) = \begin{cases} 2^{tower(n-1)} & \text{if } n > 0, \\ 1 & \text{if } n = 0. \end{cases}$$

- $2.\,$ Exercise $19.3\mbox{-}1$ on page 522
- 3. Problem 19-3 on page 529