Algorithms by Papdimitriou, Dasgupta, U. Vazirani – Solutions

Raymond Feng

August 2017

-1 Introduction

My solutions for Algorithms by Papadimitriou, Dasgupta, U. Vazirani The intent of this solution key was originally just to practice. But then I realized that this key was also useful for collaborating with fellow CS170 students as well. For corrections email raymondhfeng@berkeley.edu.

0 Prologue

0.1

0.1.a $f = \Theta(g)$

0.1.b $f = O(g)$

0.1.c $f = \Theta(g)$

This result was not clear to me immediately, but after seeing that $(log(n))^2 = O(n)$, the result quickly follows. This follows from L'Hopital's rule. $\lim_{x \to \infty} \frac{(log(n))^2}{n} = \lim_{x \to \infty} \frac{2log(n)}{n} = 0$ I use L'Hopital's rule in later problems as well, but omit the work.

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