# Algorithms by Papdimitriou, Dasgupta, U. Vazirani - Solutions

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#### -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.n  $f = \theta(g)$ 

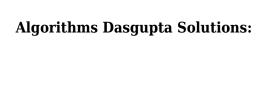
**0.1.b** f = O(g)

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.  $\lim_{n \to \infty} \frac{(log(n))^2}{n} = \lim_{n \to \infty} \frac{2log(n)}{n} = 0$  I use L'Hopital's rule in later problems as well, but omit the work.

# **Algorithms Dasgupta Solutions**

**AW Rasmussen** 



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