

# Algorithms by Papadimitriou, 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.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.  $\lim_{n \rightarrow \infty} \frac{(\log(n))^2}{n} = \lim_{n \rightarrow \infty} \frac{2\log(n)}{1} = 0$  I use L'Hopital's rule in later problems as well, but omit the work.

# Algorithms Dasgupta Solutions

**AW Rasmussen**



## **Algorithms Dasgupta Solutions:**

## Unveiling the Magic of Words: A Overview of "**Algorithms Dasgupta Solutions**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Algorithms Dasgupta Solutions**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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