

Homework 1  
CMSC 641  
Analysis of Algorithms  
Corrected Version: September 8, 2000

## 1 Course Text

Cormen, Thomas H., Charles E. Leiserson, and Ronald L. Rivest,  
“Introduction to Algorithms,”  
MIT Press, latest edition.

## 2 Reading Assignment

Read Chapters 1-4 of text.

## 3 Chapter 2 of text

Section 1. Asymptotic notation  
Page 31, Exercises 2.1-1, 2.1-2

## 4 Chapter 4 of text

Section 1. Substitution method

- Page 57, Exercises 4.1-1, 4.1-2, 4.1-5
- Page 58, Exercises 4.1-6

Section 2. Iteration method

- Page 60, Exercises 4.2-1, 4.2-2

Section 3. Master method

- Page 64, Exercises 4.3-1, 4.3-2