



Computer Science Department



CS 312
Algorithm Design
Homework 3
Basics of Algorithm Analysis
Due: February 13, 1:15 PM

1. (12 points) Do Chapter 2, Problem 3. Provide a brief explanation of the reasoning behind the order you give.
2. (12 points) Do Chapter 2, Problem 6. Hint for part b: Consider the times during execution of the loop when $i \leq n/4$ and $j \geq 3n/4$.
3. (8 points) Do chapter 3, question 9.
4. (8 points) Do chapter 3, question 10.