

# Homework Assignment 1

CS 430 Introduction to Algorithms  
Fall Semester, 2010

## Rules for Homework

On this and all future homework assignments, observe these guidelines *or credit will be deducted*:

- Write your name *clearly* at the top of *each* page. If I can't read your name *easily*, you will not get credit for the assignment.
- Begin each problem on a new page.
- Staple your finished assignment in the upper-left corner. Do not use a paper clip or fold the corner—it is your job to insure that pieces of your assignment don't get lost.
- All work must be your own with no collaboration with anyone else. Remember, you must sign and turn in the honesty pledge with this assignment; violating it will result in failing CS 430.
- Explicitly cite any references you use, including the textbook and any web pages; except for the text, always give full citations—authors, titles, dates of publication, page numbers.
- Algorithms must be carefully presented, proved correct, and analyzed in terms of their time and space requirements. Follow the style of the textbook in these matters—your analyses and proofs must be mathematically rigorous.
- If you do not turn in your homework in class on the due date, *it is your responsibility to get the paper directly to the TA*.
- You must justify any mathematical statements.

## Due: Wednesday, September 1

1. Problem 2.3-3 on page 39
2. Problem 2.3-4 on page 39
3. Problem 2-3(a) on page 41
4. Problem 3-3(a), fourth column only, on pages 61–62; justify your answers!
5. Problem 4-3(a) on page 108