General submission guidelines: Since people tend to scribble on handwritten homeworks, you are required to type up your assignment and print it out. For every algorithmic question, you must provide a Basic Idea in a few English sentences before you present the algorithm. As they say: a picture is worth a thousand words. So draw pictures to explain your idea (this may be drawn by hand). The algorithm must clearly indicate its Input and its Output. Your pseudocode must contain line numbers (like in the text) and must be properly indented. While pseudocode is generally preferred, you may write formal code using a programming language such as C++ or Java. Variable names must be meaningful. If a section of the code is complicated, it must be commented. Every algorithm needs a proof of correctness. An example is not a proof of correctness. Every algorithm must be analyzed for time complexity and (if relevant) for space complexity. Wherever possible, you should indicate the time complexity of each step in the pseudocode itself (as a comment on the right side of the statement). Non-trivial lower bound arguments are likely to fetch you extra credit. Pay careful attention to the final written solution. Reread your written solutions and look for typographical and logical errors. A well-written solution shows clarity of thought and is likely to receive better grades. Not all problems will be graded and not all graded problems will have equal score. If more than one correct algorithm can solve a problem, then a more efficient solution will fetch more credit.

Cheating Policy: Solving an algorithmic problem is a creative process. When presented with a new problem, it is your task to “take it apart” and reach your own understanding. This is a painstaking and time-consuming process. There is much to be learned from the process of thinking out solutions to the assigned homework problems. Getting help from elsewhere destroys this process. However, discussing with others after you have spent some time with a problem can help the process and bring other aspects of the problem to light. You may discuss homework problems with me or with other students in your class, after you have given it sufficient thought. But when the time comes to write up your solution, it must be your own work, and it must be in your own words. Acquiring or copying solutions from other people, textbooks or the internet is a violation of our policy. If you received help from any other source, it is customary to cite your source at the appropriate location in the homework. So write down where you got help from, otherwise it would be considered as cheating. Also, it is in your best interest not to show your written solutions to any of your classmates. Do not put your homework solutions on any accessible web page. Any evidence of cheating (without citing the source) will result in severe penalization of all parties involved. If this policy gets refined over the course of this semester, this will be posted on the course webpage.