Homework 4, Basic Algorithms, Spring 2014.
Due date: Tuesday, February 25.

Problems 3.4, 3.14, 3.19, 3.28b,c,e,g,l, 3.29a,b,d from the text.

For Problem 3.28, you may assume that $n$ is an integer power of an integer; e.g. for part a, which is not on the homework, you would assume that $n = 2^k$. Also remember to check that your solutions satisfy the given recurrence equations. Noting that an attempted solution does not satisfy the equations will receive more credit than failing to observe this.

For Problem 3.29, interpret the equations as being for real-valued $n$, and the initial equation to hold for $n \leq 1$. e.g. in part a, it would then read $A(n) = 1$ for $n \leq 1$.

**Honors Section.** Problem 3.17 and 3.30 in addition.