CSE 6331, Fall, 2012
Prof. T. K. Dey
Office : 483 Dreese Lab

## CSE6331 Homework 1

Due Tuesday, Sep 04

1. Page 73-74 : 4-4 (a,d and f) (1st edition). Page $86: 4-4$ (a,g,j) (2nd edition) Page 108: 4-3 (a,g,j) (3rd edition)
2. Determine the asymptotic complexity of the following functions (Do not use Master Theorem), assuming $c>0$. If $n \leq 4$ then $T(n)=1$, otherwise
(a) $T(n)=2 T(n / 2)+c n^{2}$
(b) $T(n)=5 T(n / 2)+c n^{2}$
3. Page 152: 7-1 (1st edition), page 142: 6-1 (2nd edition), page 166: 6-1 (3rd edition)
(The grader will only grade a subset of these problems.)
