

4005-800 ALGORITHMS

HOMEWORK 2

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April 4, 2012

PROBLEM 1. *CLRS 22.1-1*

Solution.

PROBLEM 2-a. *CLRS 22.2-2*

Solution.

PROBLEM 2-b. *CLRS 22.2-3*

Solution.

PROBLEM 2-c. *CLRS 22.2-5*

Solution.

PROBLEM 3. *CLRS 22.3-7*

Solution.

PROBLEM 4-a. $T(n) = aT(n-1) + bn$

Solution.

PROBLEM 4-b. $T(n) = aT(n-1) + bn \log(n)$

Solution.

PROBLEM 4-c. $T(n) = aT(n-1) + bn^c$

Solution.

PROBLEM 4-d. $T(n) = aT(n/2) + bn^c$

Solution.