Due: Friday, April 13, 2012	
Name(Print)	CSE Login
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Problem	Page	Notes	Points	Score
3.1.24	203	Give pseudocode	8	
3.1.30	203	Give pseudocode	8	
3.1.36	203		8	
3.1.38	203		8	
3.1.52	204	(See ALGORITHM 6)	8	
3.2.8	216	Justify your answer	8	
3.2.18	216		5	
(Bonus) 3.2.20	216	Justify your answer	6	
Problem A		See Below	2	
3.3.8	229		8	
(Bonus) 3.3.10	229		6	
Typesetting (bonus)			6	
Total			63	

Problem A: Compute the exact worst case cost of the following algorithm. You will need to pose the double summation, and compute the values (Hint: Recall page 12 of the slides on Algorithms Analysis).

Algorithm 1:

Instructions Follow instructions *carefully*, failure to do so may result in points being deducted.

- The homework can be submitted on paper or via handin. Homework *neatly* formatted in LaTeXwill receive a 10 point bonus. You will not receive the 10 bonus points if you work with a partner (see below).
- Clearly label each problem and submit answers in order.
- Staple this cover page to the front of your assignment for easier grading.
- Late submissions will not be accepted
- When you are asked to prove something, you must give a formal, rigorous, and complete a proof as possible. Each step in your proof must contain explanation that would allow us to understand what theorem/logic you have applied to arrive at that step.
- You are to work individually, and all work should be your own. Check partner policy below.
- The CSE academic dishonesty policy is in effect (see http://cse.unl.edu/ugrad/resources/academic_integrity.php).

Partner Policy You may work in pairs, but you must follow these guidelines:

- 1. You must work all problems together. You may not simply partition the work between you.
- 2. You must use LATEX and you may divide the typing duties however you wish.
- 3. You may not discuss the problems with other groups or individuals.
- 4. Hand in only one hard copy with both author's names.