

Name/CSE Login _____

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Instructions Follow instructions *carefully*, failure to do so may result in points being deducted. Clearly label each problem and submit the answers *in order*. It is highly recommended that you typeset your homework using \LaTeX or a similar typesetting system. Staple this cover page to the front of your assignment for easier grading. Be sure to submit any programming files via the webhandin (<http://www.cse.unl.edu/~cse235/handin>). Late submissions *will not be accepted*. Be sure to show sufficient work to justify your answer(s). If you are asked to prove something, you must give as formal, rigorous, and complete proof as possible. You are to work individually, and all work should be your own. The CSE academic dishonesty policy is in effect (see http://www.cse.unl.edu/undergrads/academic_integrity.php).

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

1. You must work on *all* problems (including programming) *together*. You may not simply partition the work between you.
2. You must use \LaTeX , but you may divide the typing duties however you wish.
3. You may not discuss problems with other groups or individuals.
4. Hand in only one hard copy and one copy of your program files; do so under the first author's name.

Problem	Page	Points	Score
A		5	
B		5	
6.1.8	409	15	
6.2.4	423	15	
6.2.22	423	5	
4.1.40	312	5	
4.1.54	312	5	
4.3.24	325	5	
Total		60	

*You may use any technique you wish to solve recurrences (other than maple).

Problem A Give a closed form for the following summation.

$$\sum_{k=l}^n k - c$$

Problem B Give a closed form for the following summation.

$$\sum_{i=1}^n \sum_{j=i}^m (i + j)$$