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Today: fundamentals of alg. analysis; dynamic programming. §§ 2.\*, 3.\*, 15.{1,2}

Next class: dynamic programming contd.; §§ 15.\*.

Reminders: Quiz 1 next Thursday. Read material before and after class. Use newsgroup.

- 1. List the members of your group below. Underline your name.
- 2. Prove or disprove: If  $f(n) = \Theta(g(n)), g(n) = \Omega(h(n)),$  and  $h(n) = \omega(q(n))$  then  $f(n) = \Omega(q(n)).$

3. Provide pseudocode for *selection sort*, using the textbook's style.

4.	Sketch the proof of correctness of the pseudocode in Question 3 using loop invariants.
5.	Analyze the running time of the pseudocode of Question 3 following the method used in the textbook's analysis of insertion sort.