COS 350 Spring 2017 Class Exercise 25 questions; 2 pgs. 2017-01-19

Today: rod-cutting contd.; fundamentals of alg. analysis. § 15.1; §§ 2.*.
Next class: dynamic programming contd. $\S \S 15 .\{2,3\} ; 1 . *, 3 .{ }^{*}$.
Reminders: Read material before and after class. Work on exercises. 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.
