Problem Set 6:
Greedy Algorithms I

Due: Thursday, February 27, 2014, at the beginning of class

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1. (Ch. 16) Not just any greedy approach to the activity-selection problem produces a maximum-size set of mutually compatible activities. Give an example for each of the following that illustrate why these alternative greedy choices do not work:

   a. Selecting activity of least duration from those that are compatible with previously selected activities

   b. Selecting compatible activity that overlaps with the fewest other remaining activities

   c. Selecting the compatible remaining activity with the earliest start time.

2. (Ch. 16) Work problem 16.2-4 (pages 427-248, "Professor Gecko…")

3. (Ch. 16) Work exercise 16.3-3 on page 436 ("What is optimal Huffman code...").