

CS255, Spring 2014, SJSU

Homework 4

Fernando Lobo

Due: Mar 19, 2014

Problem 1

Specify a greedy strategy to solve Problem 7 from Homework 3. Does your greedy strategy guarantee an optimal solution for the problem? If yes, prove it. In not, show a counterexample.

Problem 2

Recall the *activity selection* problem seen in class. Consider the following greedy strategy: choose the activity with least number of conflicts. Does that give a greedy algorithm that always returns an optimal solution? If yes, prove it. In not, show a counterexample.

Problem 3

Exercise 16.1-5, page 422 from textbook.

Problem 4

Exercise 16.2-4, page 427 from textbook.