Algorithms Final Exam Study Guide

Re-read slides! Book! etc…

Monday

Q1: Greedy Algorithm

* P1: Possibly fill in the blank in pseudo-code of algorithm
* P2: Show where it fails. Ex: Knapsack problem – not optimal like dynamic programming, but will fill the knapsack at least half way
* Not problems we have seen.
* Ex: Scheduling – ordering jobs from most expensive to cheapest
* Review kruskal, knapsack, scheduling algorithms…

Q2: Dynamic Programming

* P1: Fill in blank in pseudo-code of algorithm
* P2: Run-time information

Wednesday

Q1: Public key cryptography

* Diffie Helman and El-Gamal (probably 1 for each question)

Q2: Public key cryptography

* Diffie Helman and El-Gamal (probably 1 for each question)