

HOMEWORK 7 - DYNAMIC PROGRAMMING

PROBLEM 1

Prove that the weighted interval scheduling algorithm we looked at in class works. We started this proof in class - your job is to formalize it / add all the details.

PROBLEM 2 - INTERNET ALLOCATION ASSIGNMENT

The full internet allocation problem description can be found here: http://www.cs.haverford.edu/courses/cmsc340/homework/internet_at_library/problem.html. Be sure to also see the extended notes and helpful hints at: http://www.cs.haverford.edu/courses/cmsc340/homework/internet_at_library/notes.html

In answering part A, you should include the time analysis and any additional details needed. You do not need to prove correctness. In answering part B, you should include the algorithm design, pseudocode, and time analysis (but not the proof of correctness).