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## Homework 12 – Due Wednesday, December 12, 2007

Please refer to the general information handout for the full homework policy and options.

### Reminders

- Your solutions are due *before* the lecture. Late homework will not be accepted.
- Collaboration is permitted, but you must write the solutions *by yourself without assistance*, and be ready to explain them orally to a member of the course staff if asked. You must also identify your collaborators. Getting solutions from outside sources such as the Web or students not enrolled in the class is strictly forbidden.
- To facilitate grading, please write down your solution to each problem on a separate sheet of paper. Make sure to include all identifying information and your collaborators on each sheet. Your solutions to different problems will be graded separately, possibly by different people, and returned to you independently of each other.
- *For all problems where you are asked to design an algorithm, do not forget to prove correctness and analyze your algorithms time and space complexity.*

**Exercises** These should not be handed in, but the material they cover may appear on exams:

1. Chapter 11, problem 1.
2. Chapter 13, problems 1,2.

### Problems to be handed in

1. (**Feasible Subset with Largest Sum**) Chapter 11, problem 3.
2. (**Weighted Hitting Set**) Chapter 11, problem 4.
3. (**Distributed Independent Set**) Chapter 13, problem 3.