Take Home Final Exam

due Thursday, December 8, 2022

Turn in six problems as described below.

**greedy - div&con** Do two of questions 1, 2, or 3.

**dynprog** Do two of questions 4 through 6.
- Describe subproblem and recurrence.
- Describe desired output in terms of subproblem.
- Don’t forget the base case!
- Typeset recurrence *very* nicely.
- Do not give code.
- Note the time and space that would be used if you did have code.

**npcomp** Do two of the problems given by question 7

1. exercise 4 of chapter 4, pp 190, show correctness of greedy choice
2. exercise 6 of chapter 4, p 191, show correctness of greedy choice
3. exercise 3 of chapter 5, pp 246-7
4. exercise 8 of chapter 6, pp 319-20
5. exercise 9 of chapter 6, pp 320-21
6. exercise 20 of chapter 6, p 329-30
7. Any of exercises 3, 8, 9, 10 of chapter 8, pp 505-10