

# MA/CSSE 473 – Design and Analysis of Algorithms

## Homework 16 (30 points total)

**Due Friday at 3 PM.**

### Problems to write up and turn in:

This assignment was described in detail in Friday's class. You are to submit four problems (with solutions) that you think would be good problems for the Final Exam. I will grade this assignment in a holistic way, rather than assigning points to each problem. Here are some things that can improve your score.

- Well-stated problems with correct solutions
- Relevant to the course material
- A range of difficulty levels
- Some that are straightforward applications of course material, others that require more thought
- Not one of the (required or optional) assigned problems
- Each one doable within 30 minutes
- A variety of sections of the course are covered
- Solutions include code where appropriate.
- Problem is clearly stated
- Accompanied by diagrams if appropriate.

Please submit these via email, with a subject line CSSE473 HW 16

**Bonus:** If I actually use one of your problems on the exam, I will give you 40 extra-credit homework points (and you ought to be able to quickly get full credit for that problem on the exam!). I am more likely to use your problem if you write it carefully, and present it in a format that allows me to paste it into a Word document and tweak it.

I reserve the right to use many, few, or none of the student problems on the exam, depending on the quality of the problems submitted, the material covered, and how your problems fit with problems I plan to ask.

Hopefully, thinking about problems to submit will be a useful way of reviewing for the exam.

### **Don't forget the Boyer-Moore demonstration implementation problem**

Described in Day 28 PowerPoint Slides