

Exam 1 Review

The exam will be five problems plus one or two extra credit problem(s). Below is a summary of what you should expect for each of the problems:

- (1) Know what the PSSSP is and how problems from either class or homework relate.
- (2) Understand the problems/games that were done in class. Pay attention to those we spent a great deal of time on.
- (3) Understand how to add numbers using Gauss' trick (refer back to the stretches and in-class problems that we did).
- (4) A problem similar to the several counting problems done in-class (e.g. the six toothpick problem, splitting up a rectangle into squares, etc.).
- (5) A problem where you need to discuss all the possible cases (not too many) and then decide which one yields a correct solution.

How to prepare:

- (1) Understand the different strategies we used to solve each kind of problem.
- (2) Look at all the stretches and in-class problems.
- (3) Try thinking of how to solve similar problems to those we completed.