

Announcements:

1. HW 3 Due Tonight at 11:55PM.
2. Exam dates: Tuesday Sept 30, Tuesday, November 4. In-class. Not in schedule page yet.
 - If you are allowed extra time for the exam and plan to use that time, please talk with me soon about timing.
3. Don't use a pirated copy of the textbook!

Main ideas from today:

1. Prove by induction that in an Odd Pie Fight, at least one participant does not get hit by a pie.

2. What problem does Euclid's Algorithm solve?

3. Show the recursive calls for Euclid's Algorithm applied to $a=188$ and $b=144$.

4. The following two conditions imply that $d = \gcd(a,b)$:

a.

b.

5. Use the extended Euclid algorithm to find integers x and y such that $x \cdot 25 + y \cdot 11 = 1$.

6. r is an inverse of $m \pmod{N}$ iff $rm \equiv 1 \pmod{N}$.

Show that a number m cannot have two different inverses \pmod{N} that are both in range $1 \dots N-1$

7. What is the inverse of 11 $\pmod{25}$?