

CS156 - More on the fraction class

Note Title

2/28/2012

Announcements

- New HW up today -
due next Thursday

A new class :

$$\frac{-2}{-1} = 2$$

$$\frac{8}{6} = \frac{4}{3}$$

Python supports int and float, but not rationals.

What are rationals? *Fraction*

$\frac{x}{y}$ where x & y are integers

Why useful? (What do we lose in floats?)

irrational

$$\frac{1}{3} = .3333\dots$$

Fraction class

$$\frac{2}{4} \rightarrow \frac{-1}{2}$$

- We'll store fractions in reduced form.
- Our class will be immutable.

Methods:

- __add__

- __mul__

- __div__

- __sub__

- __str__

- __float__

if x < y
↓
__lt__

Today

Finish off the Fraction class.