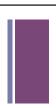
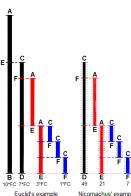


+ Fraction Class (gcd)



- In order to reduce a fraction, we first need to find the Greatest Common Divisor
- Euclid's method is a recursive way to solve this:
 - Base case: gcd(a,0) is a
 - Recursive case: gcd(a,b) is gcd(b,a mod b)
 - lacksquare where $a \mod b = a b \left\lfloor rac{a}{b}
 ight
 floor$
- Exercise:
 - write a recursive method to do gcd
 - write an iterative method to do gcd



+ CoffeeDate



- Implement the Cup and Contents class (see below). Create a driver class called CoffeeDate that asks a user for the first person's size and type of drink. For size only allow them to ask for an "eensy" (8 oz.), "so-so"(12 oz.), or "mega" (20 oz.). For type only allow "Coffee" or "Tea". Your last line of code in your main method should be:
- System.out.println("Here is your " + cup1 + " and your " + cup2);

+ Coffee Date



- Cup
 - attributes
 - contents
 - strength
 - capacity
 - operations
 - fill
 - empty
 - toString

- **Contents**
 - attributes
 - **■** type
 - amount
 - operations
 - getType
 - getAmount
 - setType
 - setAmount