Pre-Lab Write Up

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Lab: #5 Least Common Denominator

1. Describe in English what this program is supposed to do (not how it does it). **This should be able to be your class comment at the top of your program (you may copy and paste this into your program later)**:

Find the least common denominator of two or more fractions.

2. List the separate tasks needed to accomplish what you described in part 1. These should be the individual methods you are going to have in your program (**both public and private methods**):

Method 1 Name: __leastCD_____

Method 2 Name: ___gcd_____

Method 3 Name: _____printLCD_____

3. For each of the tasks/methods in part 2, describe in English what they are supposed to do (not how they do it). Additionally, note any information each of the tasks need to accomplish their goal as well as any information they need to give back. **These should be able to be used as your method comments in your program (you may copy and paste this into your program later)**:

Method Name: leastCD

Method Description:

Uses a Math Absolute to calculate the Least Common Denominator

Parameters (for each: type and what it represents): accepts 2 ints representing the denominator or 2 fractions.

Returns (type and what it represents): an int representing LCD

Method Name: gcd

Method Description: `Recursive method to find the greatest common divisor`

Parameters (for each: type and what it represents): accepts 2 ints representing the denominator of 2 fractions

Returns (type and what it represents): after recursion this returns an int that will be used in the leastCD method. This int is the Greatest Common Denominator.

Method Name: printLCD

Method Description:

This method will print to terminal the Least Common Denominator of two fractions imputed by the user.

Parameters (for each: type and what it represents): Accepts 4 ints (2 denominators and 2 numerators).

Returns (type and what it represents): Prints to terminal the Least Common Denominator

Continue below with the rest of the tasks/methods you listed from part 2:

4. For each of the tasks in part 3, give a brief description in English of how you plan to accomplish the task. You may either describe it thoroughly in English, use pseudo-code, or use a combination of the 2:

leastCD: In this method we are accepting 2 ints from the user. These ints represent the denominators of two fractions. Using a math formula that takes the 2 denoms and another int returned from the gcd (Gross Common Divisor) this method returns an int representing the Least Common Denominator.

gcd: In this method we take in the two denominators and perform recursion to find the greatest common divisor. This returns an int gcd that is used in the leastCD method.

printLCD: In this method we use a println statement to print to terminal the two fractions and the leastCD int.

5. What questions do you still have about this lab after reading through the specification and completing the pre-lab?

None.