1. Draw a representation of the first task in the problem with different examples (make sure one has a cycle in it) to ensure you understand the problem (i.e., don't worry about solving the second part of the assignment):
Example 1: Roommate A owes Roommate B \$10.00 and Roommate C \$15.00
Graph Representation:
A -10-> B
A -15-> C
Example 2: Roommate A owes Roommate B \$10.00, Roommate B owes Roommate C \$15.00, and Roommate C owes Roommate A \$20.00
Graph Representation:
A -10-> B
B -15-> C
C -20-> A
4. Draw a representation of your approach to the second task with examples (make sure one has a cycle in it) to ensure you understand the problem and how to model a solution:
Example 1: Roommate A owes Roommate B \$10.00 and Roommate C \$15.00
Graph Representation:
A -25-> B
B -15-> C
Example 2: Roommate A owes Roommate B \$10.00, Roommate B owes Roommate C \$15.00, and Roommate C owes Roommate A \$20.00
Graph Representation:
A -25-> B
B -15-> C
C -5-> A