**Determine Number of Each Denomination to Return**

Get Amount Due

Get Amount Tendered

Calculate Change Due

Calculate Dollar Change Due

Calculate Coin Change Due

Calculate Number of Each Bill Returned

Calculate Number of Each Coin Returned

Display Change Summary

**Get Amount Due**

Display “Enter Amount Due: “ to user

Get amountDue from user

**Get Amount Tendered**

Display “Enter Amount Tendered: “ to user

Get amountTendered from user

**Calculate Change Due**

Set changeDue to amountTendered – amountDue

**Calculate Dollar Change Due**

Set dollarChange to changeDue [Truncated]

**Calculate Coin Change Due**

Set coinChange to ((changeDue - dollarChange) \* 100) + 0.5 [Rounded Up]

**Calculate Number of Each Bill Returned**

Set num20s to dollarChange / 20 [Integer Division]

Set dollarChange to remainder of dollarChange / 20 [Integer Division]

Set num10s to dollarChange / 10 [Integer Division]

Set dollarChange to remainder of dollarChange / 10 [Integer Division]

Set num5s to dollarChange / 5 [Integer Division]

Set dollarChange to remainder of dollarChange / 5 [Integer Division]

Set num1s to dollarChange / 1 [Integer Division]

Set dollarChange to remainder of dollarChange / 1 [Integer Division]

**Calculate Number of Each Coin Returned**

Set numQuarters to coinChange / 25 [Integer Division]

Set coinChange to remainder of coinChange / 25 [Integer Division]

Set numDimes to coinChange / 10 [Integer Division]

Set coinChange to remainder of coinChange / 10 [Integer Division]

Set numNickels to coinChange / 5 [Integer Division]

Set coinChange to remainder of coinChange / 5 [Integer Division]

Set numPennies to coinChange / 1 [Integer Division]

Set coinChange to remainder of coinChange / 1 [Integer Division]

**Display Change Summary**

Display “Amount Due: “, amountDue to user

Display “Amount Tendered: “, amountTendered to user

Display “Change Due: “, changeDue to user

Display “Give the following Bills: “ to user

Display num20s, “ - $20 Bill(s) “ to user

Display num10s, “ - $10 Bill(s) “ to user

Display num5s, “ - $5 Bill(s) “ to user

Display num1s, “ - $1 Bill(s) “ to user

Display “Give the following Coins: “ to user

Display numQuarters, “ - Quarter(s)” to user

Display numDimes, “ - Dime(s)” to user

Display numNickels, “ - Nickel(s)” to user

Display numPennies, “ - Pennie(s)” to user