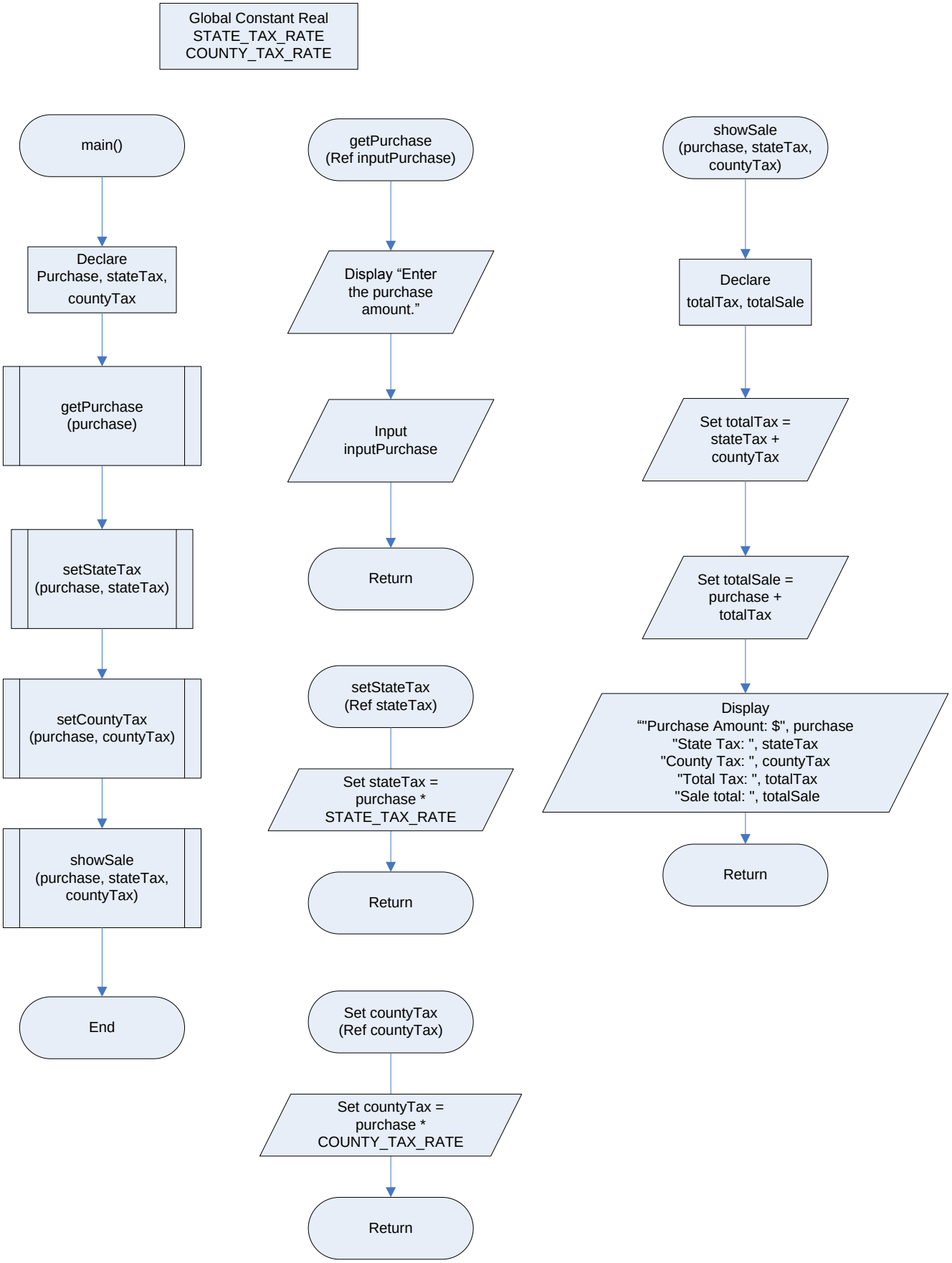
Programming Exercise 3-2

```
# Global constants for the state and county tax rates
STATE_TAX_RATE = 0.04
COUNTY_TAX_RATE = 0.02

# maindef
def main():
    # Local variables
    purchase = 0.0
    stateTax = 0.0
    countyTax = 0.0

    # Get the amount of the purchase
    Purchase = float(input("Enter the purchase amount: "))
    # Calculate the state tax
    stateTax = purchase * STATE_TAX_RATE

    # Calculate the county tax
    countyTax = purchase * COUNTY_TAX_RATE

    # Print information about the sale
    showSale(purchase, stateTax, countyTax)

# The showSale function accepts purchase, stateTax, countyTax as arguments
# and prints the equivalent total sale information.
def showSale (purchase, stateTax, countyTax):
    #local variables
    totalTax = 0.0
    totalSale = 0.0
    totalTax = stateTax + countyTax
    totalSale = purchase + totalTax
    print ("Purchase amount: ", format(purchase, '.2f'))
    print ("State tax: ", format(stateTax, '.2f'))
    print ("County tax: ", format(countyTax, '.2f'))
    print ("Total tax: ", format(totalTax, '.2f'))
    print ("Sale total: ", format(totalSale, '.2f'))
```


Global Constant Real
STATE_TAX_RATE
COUNTY_TAX_RATE
main()
Declare
Purchase, stateTax,
countyTax
getPurchase
(purchase)
setStateTax
(purchase, stateTax)
setCountyTax
(purchase, countyTax)
showSale
(purchase, stateTax,
countyTax)
End
getPurchase
(Ref inputPurchase)
Display “Enter
the purchase
amount.”
Input
inputPurchase
Return
setStateTax
(Ref stateTax)
Set stateTax =
purchase *
STATE_TAX_RATE
Return
Set countyTax
(Ref countyTax)
Set countyTax =
purchase *
COUNTY_TAX_RATE
Return
showSale
(purchase, stateTax,
countyTax)
Declare
totalTax, totalSale
Set totalTax =
stateTax +
countyTax
Set totalSale =
purchase +
totalTax
Display
“"Purchase Amount: $", purchase
"State Tax: ", stateTax
"County Tax: ", countyTax
"Total Tax: ", totalTax
"Sale total: ", totalSale
Return