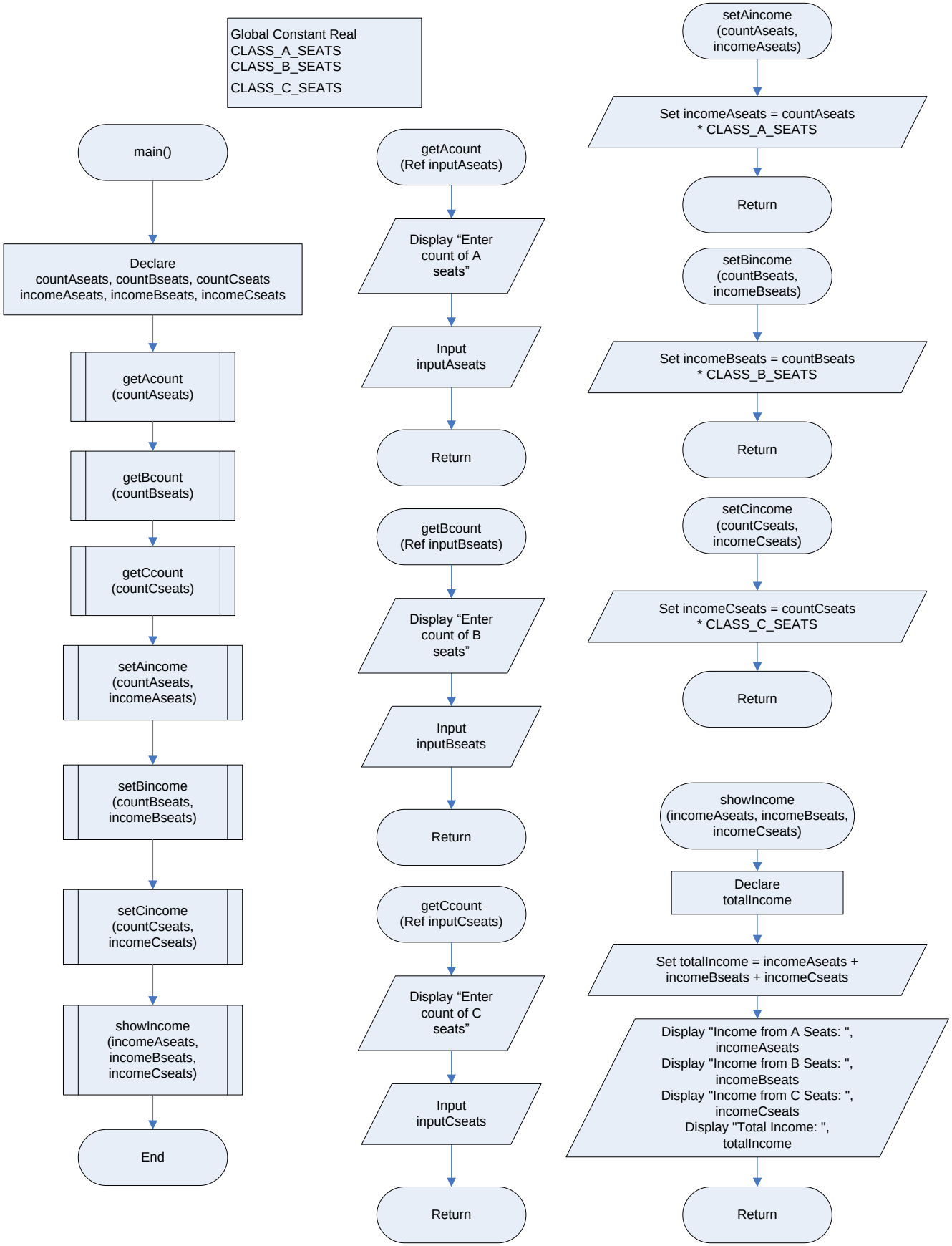
Programming Exercise 3-8

```
# Global constants for stadium seating
CLASS_A_SEATS = 15
CLASS_B_SEATS = 12
CLASS_C_SEATS = 9

# main module
def main():
    # Local variables
    countAseats = 0
    countBseats = 0
    countCseats = 0
    incomeAseats = 0.0
    incomeBseats = 0.0
    incomeCseats = 0.0

    # Get A count
    countAseats = int(input("Enter count of A seats: "))

    # Get B count
    countBseats = int(input("Enter count of B seats: "))

    # Get C count
    countCseats = int(input("Enter count of C seats: "))

    # Calculate A income
    incomeAseats = countAseats * CLASS_A_SEATS

    # Calculate B income
    incomeBseats = countBseats * CLASS_B_SEATS

    # Calculate C income
    incomeCseats = countCseats * CLASS_C_SEATS

    # print income
    showIncome(incomeAseats, incomeBseats, incomeCseats)


# The showIncome function accepts the income from class A, B, and C seats
# and displays the total income
def showIncome(incomeAseats, incomeBseats, incomeCseats):
    #local variable
    totalIncome = 0.0

    #calculate total income
    totalIncome = incomeAseats + incomeBseats + incomeCseats

    #show results
    print ("Income from class A seats: $", format(incomeAseats, '.2f'))
    print ("Income from class B seats: $", format(incomeBseats, '.2f'))
    print ("Income from class C seats: $", format(incomeCseats, '.2f'))
    print ("Total income: $", format(totalIncome, '.2f'))
```


Global Constant Real
CLASS_A_SEATS
CLASS_B_SEATS
CLASS_C_SEATS
main()
Declare
countAseats, countBseats, countCseats
incomeAseats, incomeBseats, incomeCseats
getAcount
(countAseats)
getBcount
(countBseats)
getCcount
(countCseats)
setAincome
(countAseats,
incomeAseats)
setBincome
(countBseats,
incomeBseats)
setCincome
(countCseats,
incomeCseats)
showIncome
(incomeAseats,
incomeBseats,
incomeCseats)
End
getAcount
(Ref inputAseats)
Display “Enter
count of A
seats”
Input
inputAseats
Return
getBcount
(Ref inputBseats)
Display “Enter
count of B
seats”
Input
inputBseats
Return
getCcount
(Ref inputCseats)
Display “Enter
count of C
seats”
Input
inputCseats
Return
setAincome
(countAseats,
incomeAseats)
Set incomeAseats = countAseats
* CLASS_A_SEATS
Return
setBincome
(countBseats,
incomeBseats)
Set incomeBseats = countBseats
* CLASS_B_SEATS
Return
setCincome
(countCseats,
incomeCseats)
Set incomeCseats = countCseats
* CLASS_C_SEATS
Return
showIncome
(incomeAseats, incomeBseats,
incomeCseats)
Declare
totalIncome
Set totalIncome = incomeAseats +
incomeBseats + incomeCseats
Display "Income from A Seats: ",
incomeAseats
Display "Income from B Seats: ",
incomeBseats
Display "Income from C Seats: ",
incomeCseats
Display "Total Income: ",
totalIncome
Return