#This function is the starting point of the program.  
#It welcomes the user, and asks which package they want (after displaying a menu of options).  
#Once they enter a valid package it uses getQuantity to get the number of each type of ticket  
#(adult, child and concession) and then finds the total cost using calcTotalCost.  
#If the total cost is over 100 then it uses getDiscount to see if they get a 20% discount,  
#and tells the user if they get it. Finally it prints the total cost and ends.

main():

display welcome to user and ask which package they want

get package from user, convert it to uppercase

while package is not B, or P, or E

Print Error; Message

get package from user, convert it to uppercase

adultTickets = getQuantity("How many adult tickets? ")

childTickets = getQuantity("How many child tickets? ")

concTickets = getQuantity("How many concession tickets? ")

ticketCost = calcTotalCost(package, adultTickets, childTickets, concTickets)

if ticketCost is > 100 then:

discounted = call getDiscount()

If discounted = True Then:

ticketCost = ticketCost \* 0.8

display "You received a 20% discount"

display ticketCost

#This function will take the type of package, and the number of each type of ticket

#(adult, child and concession) as inputs and will calculate the total cost of all

#tickets for the appropriate package. This value will then be returned.

calcTotalCost(packageCode, numAdultTickets, numChildTickets, numConcTickets)

adultCost = numAdultTickets \* ADULT\_TICKET\_PRICE

childCost = numChildTickets \* CHILD\_TICKET\_PRICE

concCost = numConcTickets \* CONC\_TICKET\_PRICE

totalCost = adultCost + childCost + concCost

if packageCode = P then:

totalCost = totalCost \* PREMIUM\_FACTOR

otherwise if packageCode = E then:

totalCost = totalCost \* EXTRAVAGANT\_FACTOR

return totalCost

#This function generates a random number, and if it is equal to the lucky number

#then it returns True, otherwise it returns False

getDiscount()

generate randomNum between 1-10 inclusive

If randomNum = LUCKYNUM Then:

discount = True

otherwise:

discount = False

return discount

#This function will take a prompt as input, display it to the user and get a value in response.

#If the user enters a value below zero then an error is displayed, and they will be asked again

#until they enter a value of 0 or more. This value is then returned from the function

getQuantity(prompt):

display prompt

get value from user

while value is less than zero:

Print an Error

display prompt

get value

return value