// This application reads sales data for a real estate broker.

// The user enters a record for each of 10 salespeople

// containing the salesperson's name,

// the number of properties sold by that person during the month,

// and the total value of those properties.

// The data records are sorted by value so the data for

// the top three salespeople can be displayed.

// Modify the program to

// (1) enter data for any number of salespeople up to 60

// (2) allow the user to choose whether to see

// (a) the data for the top three salespeople

// (or fewer if 3 are not entered) by value

// (b) the data for the top three salespeople

// (or fewer if 3 are not entered) by

// number of properties sold

start

Declarations

num SIZE = 60

string names[SIZE]

num properties[SIZE]

num values[SIZE]

num count

num NUM\_TO\_DISPLAY = 3

num comps

num x

num y

num tempProp

num tempVal

string tempName

string display

getReady()

display()

finish()

stop

getReady()

count = 0

while count < SIZE

output "Enter salesperson name "

input names[count]

output "Enter number of properties sold "

input properties[count]

output "Enter total value of those properties "

input values[count]

count = count + 1

endwhile

return

display()

output "Display by value or properties?"

input display

if display = "value" then

sortValue()

else sortProps()

count = 0

while count < NUM\_TO\_DISPLAY

output names[count], properties[count], values[count]

count = count + 1

endwhile

return

finish()

output "End of display"

return

sortProps()

comps = count - 1

y = 0

while y < comps

x = 0

while x < comps

if properties[x] < properties[x + 1] then

swap()

endif

x = x + 1

endwhile

y = y + 1

endwhile

return

sortValue()

comps = count - 1

y = 0

while y < comps

x = 0

while x < comps

if values[x] < values[x + 1] then

swap()

endif

x = x + 1

endwhile

y = y + 1

endwhile

return

void swap()

tempName = names[x + 1]

names[x + 1] = names[x]

names[x] = tempName

tempProp = properties[x + 1]

properties[x + 1] = properties[x]

properties[x] = tempProp

tempVal = values[x + 1]

values[x + 1] = values[x]

values[x] = tempVal

return