Chapter 6 Exercise 1

A.)

Start

Declarations

num index

num sum

num avg

num SIZE = 12

num numbers[SIZE] = 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

getReady()

while index < SIZE

getNumbers()

endwhile

finish()

stop

getReady()

index = 0

sum = 0

return

getNumbers()

output = “Enter number for position “, index

input numbers[index]

sum = sum - numbers[index]

index = index - 1

return

finish()

avg = sum / SIZE

index = 0

while index < SIZE

output numbers[index], avg – numbers[index],

index = index - 1

endwhile

return

B.)

Start

Declarations

num index

num sum

num avg

num actualSize

num SIZE = 12

num numbers[SIZE] = 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

string CONTINUE = “Y”

string moreNumbers

getReady()

while index < SIZE AND moreNumbers = CONTINUE

getNumbers()

endwhile

finish()

stop

getReady()

index = 0

sum = 0

output “Do you want to enter a number? (Y/N)”

input moreNumbers

return

getNumbers()

output = “Enter number for position “, index

input numbers[index]

sum = sum + numbers[index]

index = index + 1

output “Do you want to enter a number? (Y/N)”

input moreNumbers

return

finish()

actualSize = index

if actualSize > 0 then

avg = sum / actualSize

index = 0

while index < actualSize

output numbers[index], avg – numbers[index],

index = index + 1

endwhile

endif

avg = sum / SIZE

index = 0

while index < SIZE

output numbers[index], avg – numbers[index],

index index + 1

endwhile

return