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CIS1400-003

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Module main

Declare Int index, Real total, Real total

Declare String monthsArray ["January", "February", "March", "April", "May", "June",\

"July", "August", "September", "October", "November", "December"]

Declare Real rainfallArray[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

Declare Int size

Set size = length(monthsArray)

For index = 0 to index = size - 1

Display “Enter in the amount of rainfall in inches for “\

+ monthsArray[index] + “:”

End For

Input rainfallArray[index]

Set total = rainfallArray[index] + total

Declare Int largestIndex, Int smallestIndex, Real average

Set largestIndex = GetLargestRainfall(rainfallArray, size)

Set smallestIndex = GetSmallestRainfall(rainfallArray, size)

Set average = total/size

Display “The largest amount of rain was”, rainfallArray[largestIndex], “in”,\ monthsArray[largestIndex], “.”

Display “The smallest amount of rain was”, rainfallArray[smallestIndex], “in”\

monthsArray[smallestIndex], “.”

Display “The monthly average amount of rain is”, format(average, “.2f”),”.”

Display “The total amount of rain is”, format(total, “.2f”),”.”

End Module

Function GetLargestRainfall(Real array, Int size)

Declare Int index, Real largest

Set largest = array[0]

For index = 0 to index = size – 1

If largest > array[index]

Set largest = array[index]

Set largestIndex = index

End if

End For

Return largestIndex

End Function

Fuction GetSmallestRainfall(Real array, Int size)

Delcare Int index, Real smallest

Set smallest = array[0]

For index = 0 to index = size - 1

If index > array[index]

Set smallest = array[index]

Set smallestIndex = array[index]

End if

End For

Return smallestIndex

End Function