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CIS 1400 LAB#7 pseudocode

Module main ( )

Constant Integer SIZE = 12

Declare Integer Index

Declare Real monthRain[SIZE] ; largeRain ; smallRain ; total ;

Declare String monthName = ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun',

'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec']

For index in range(0, 11)

Display ‘Enter the rainfall for month ‘, monthName[index], ‘in inches.’

Input monthRain[index]

End For

Set largeRain = getLargestRainfall(monthRain, SIZE)

Set smallRain = getSmallestRainfall(monthRain, SIZE)

Set total = totalRain(monthRain, SIZE)

Display ‘The total rainfall for the year was ‘, total, ‘ inches.’

Display ‘The greatest rainfall was ‘, monthRain[largeRain], ‘inches, in ‘,

monthName[largeRain]

Display ‘The least rainfall was ‘, monthRain[smallRain], ‘ inches, in’,

monthName[smallRain]

Display ‘The monthly average rainfall for the year was ‘, total / 12, ‘inches.’

Function Integer getLargestRainfall(Real rain[ ], integer SIZE)

Declare Real largeRain

Declare Integer monthIndexL ; index

Set largeRain = rain[0]

For index in range(0, 11)

If rain[index] > largeRain Then

Set largeRain = rain[index]

Set MonthIndexL = index

End For

Return monthIndexL

End Function

Function Integer getSmallestRainfall(Real rain[ ], integer SIZE)

Declare Real smallRain

Declare Integer monthIndexS ; index

Set smallRain = rain[0]

For index in range(0, 11)

If rain[index] > smallRain Then

Set smallRain = rain[index]

Set MonthIndexS = index

End For

Return monthIndexS

End Function

Function Real totalRain(Real rain[ ], SIZE)

Declare Real total

Declare integer index

For index in range (0, 11)

Total = total + rain[index]

End For

Return total

End Function

Call Main module