Module Module1

'Demonstrate passing array to a function

Sub Main()

'Declare 2 arrays

Dim numbers(9) As Integer

Dim numbers2() As Integer

'Initialize random number generator

Randomize()

'Fill first array with random integers

For i = 0 To 9

numbers(i) = CInt(Rnd() \* 100)

Next

'Send first array to function that doubles all values and stores what is

'returned in the second array

numbers2 = doubleNumbers(numbers)

'Print the values in both arrays

For i = 0 To 9

Console.WriteLine(numbers(i) & " " & numbers2(i))

Next

End Sub

Function doubleNumbers(ByVal n() As Integer) As Integer()

'find the length of the array passed to this function

Dim length As Integer = n.Length

'Create array of same size as the array passed to this function

Dim nums(length - 1) As Integer

'Double each value in the array passed to this function and store

'In the new array

For i = 0 To length - 1

nums(i) = 2 \* n(i)

Next

'return the new array that contains double the values of the first array

Return nums

End Function

End Module