

مطلوب برنامج يقوم بقراءة مصفوفة احادية البعد وضرب عناصر هذه المصفوفة بالعدد 4

```
Imports System.Console
Module Module1
    Sub Main()
        Dim a(4) As Double
        Dim b(4) As Double
        Dim i As Integer
        For i = 0 To 3
            WriteLine("input a(" & i & ")")
            a(i) = ReadLine()
        Next
        ReadLine()
        For i = 0 To 3
            b(i) = a(i) * 2
            WriteLine("b(" & i & ")= " & b(i))
        Next
        ReadLine()
    End Sub
End Module
```

برنامج يقوم بحساب الانحراف المعياري لمجموعة من الارقام

$$s = \sqrt{\frac{\sum_{i=1}^n (x_i - av)^2}{n-1}}$$

عدد الارقام: n

المتوسط: av

```
Imports System.Console
Module Module1
    Sub Main()
        Dim i, n As Integer
        Dim av, s As Double
        WriteLine("input caunt of number")
        n = ReadLine()
        If n > 1 Then
            Dim x(n) As Double
            av = 0
            For i = 0 To n - 1
                x(i) = ReadLine()
                av = av + x(i)
            Next
            av = av / n
            s = 0
            For i = 0 To n - 1
                s = s + (x(i) - av) ^ 2
            Next
            s = (s / (n - 1)) ^ 0.5
            WriteLine("S=" & s)
            ReadLine()
        Else
            WriteLine("error")
        End If
    End Sub
End Module
```

برنامج يقوم بترتيب مجموعة من العناصر تصاعدياً

```
Imports System.Console
Module Module1
    Sub Main()
        Dim n As Integer
        Dim i, j As Integer
        Dim z As Double
        WriteLine("input n:")
        n = ReadLine()
        Dim x(n) As Double
        For i = 0 To n - 1
            x(i) = ReadLine()
        Next
        For i = 0 To n - 2
            For j = i + 1 To n - 1
                If x(i) > x(j) Then
                    z = x(i)
                    x(i) = x(j)
                    x(j) = z
                End If
            Next
        Next
        For i = 0 To n - 1
            WriteLine("x(" & i & ")=" & x(i))
        Next
        ReadLine()
    End Sub
End Module
```