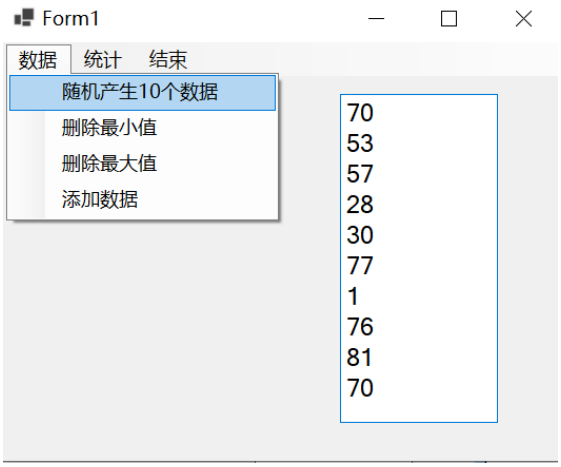
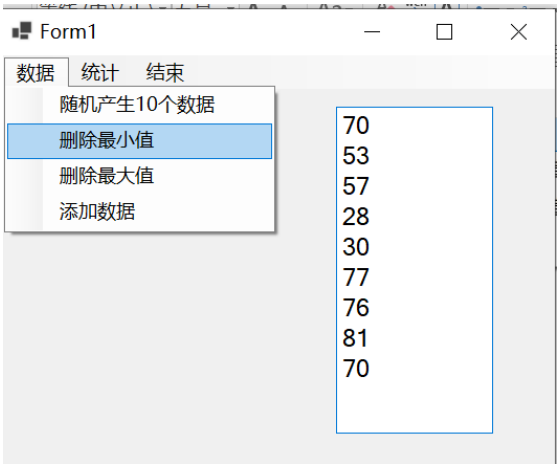
实验 1.6

一、运行结果

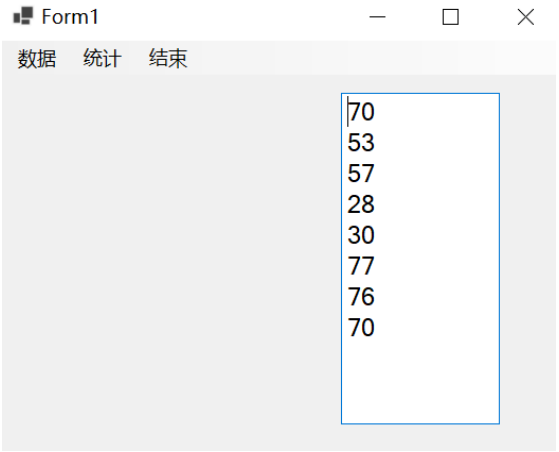
1. 随机生成 10 个数据



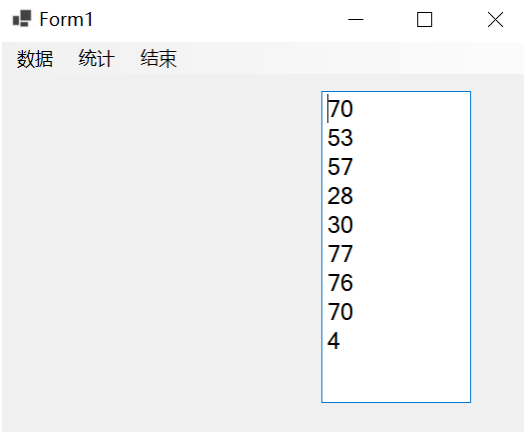
2. 删除最小值



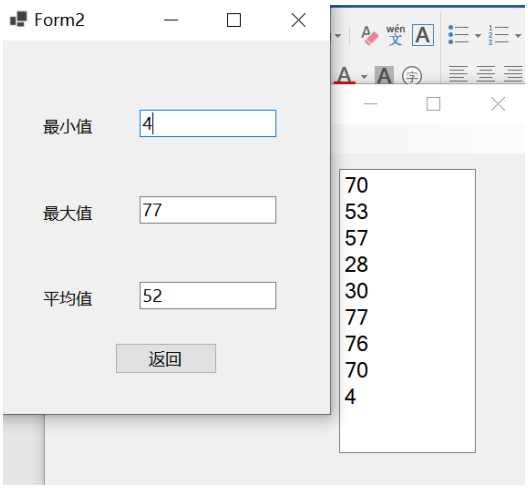
3. 删除最大值



4. 添加数据



5. 统计



二、代码说明

1. Module.vb

```
Module Module1
    Public arr() As Integer = {0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0}
    Public N%, i%, j%, imin%, xmin%, imax%, xmax%, x%, isum%, iavg%
```

(1)定义最小值函数

```
    Public Function min(ByVal arr, ByVal N, ByRef i, ByRef x)
        Dim k%
        i = arr(0)
        For k = 1 To N - 1
            If arr(k) < i Then
                i = arr(k)
                x = k
            End If
        Next
    End Function
```

(2)定义最大值函数

```
    Public Function max(ByVal arr, ByVal N, ByRef i, ByRef x)
        Dim m%
```

```
        i = arr(0)
        For m = 1 To N - 1
            If arr(m) > i Then
                i = arr(m)
                x = m
            End If
        Next
    End Function

    Public Function sum(ByVal arr, ByVal N, ByRef isum)
        For j = 0 To N - 1
            isum += arr(j)
        Next
    End Function
End Module
```

2. Form1.vb

```
Public Class Form1
    Dim F2 As New Form2


    Sub 随机产生10个数据ToolStripMenuItem_Click(sender As Object, e As EventArgs)
Handles 随机产生10个数据ToolStripMenuItem.Click
        N = 10
        For i = 0 To N - 1
            arr(i) = Int(100 * Rnd())
            TextBox1.Text &= arr(i) & vbCrLf
            TextBox1.Font = New Font("", 12)
        Next i
    End Sub

    Sub 删除最小值ToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles 删
除最小值ToolStripMenuItem.Click
        TextBox1.Clear()
        imin = arr(0)
        min(arr, N, imin, xmin)
        N = N - 1
        For j = xmin To N - 1
            arr(j) = arr(j + 1)
        Next
        For i = 0 To N - 1
            TextBox1.Text &= arr(i) & vbCrLf
            TextBox1.Font = New Font("", 12)
        Next i
```

```
    End Sub

    Sub 删除最大值ToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles 删除最大值ToolStripMenuItem.Click
        TextBox1.Clear()
        imax = arr(0)
        max(arr, N, imax, xmax)
        N = N - 1
        For j = xmax To N - 1
            arr(j) = arr(j + 1)
        Next
        For i = 0 To N - 1
            TextBox1.Text &= arr(i) & vbCrLf
            TextBox1.Font = New Font("", 12)
        Next i
    End Sub

    Sub 添加数据ToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles 添加数据ToolStripMenuItem.Click
        N = N + 1
        arr(N - 1) = Int(100 * Rnd())
        TextBox1.Text &= arr(N - 1) & vbCrLf
    End Sub

    Sub 统计ToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles 统计ToolStripMenuItem.Click
        min(arr, N, imin, xmin)
        max(arr, N, imax, xmax)
        isum = 0
        sum(arr, N, isum)
        iavg = isum / N
        F2.ShowDialog()
    End Sub

    Sub 结束ToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles 结束ToolStripMenuItem.Click
        End
    End Sub
End Class
```

3. Form2.vb

```
Public Class Form2
    Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Me.Close()
```

```
    End Sub

    Private Sub Form2_Load(sender As Object, e As EventArgs) Handles Me.Load
        TextBox1.Text = imin
        TextBox2.Text = imax
        TextBox3.Text = iavg
    End Sub
End Class
```