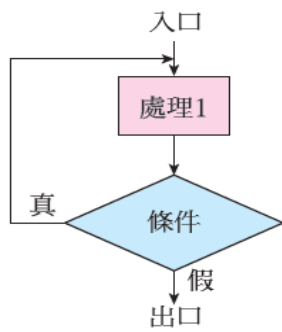


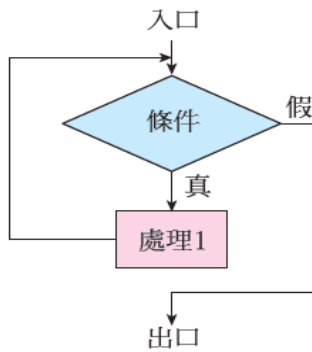
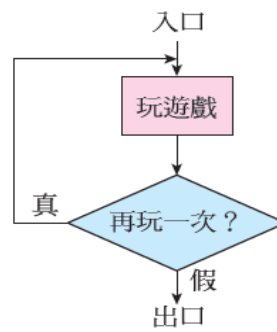
K	K>10?	vp
2	2>10? X	100
4	4>10? X	102
6	6>10? X	106
8	8>10? X	112
10	10>10? X	120
12	12>10? V	130

顯示VP的值

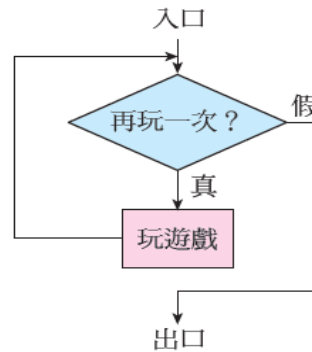
- 3 重複結構 (Loop Structure)：執行過程中會依據某項條件而反覆執行某些步驟。如在下圖的重複結構中，只要條件成立會重複執行「處理 1」，若條件不成立則跳出迴圈，執行下一行敘述。



例如：

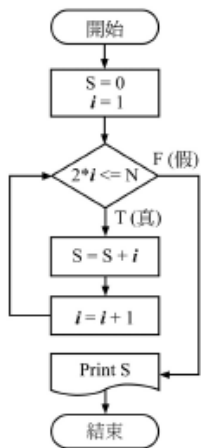


例如：



後測式: 迴圈主體(處理1)至少會執行一次

前測式: 迴圈主體(處理2)可能不會被執行

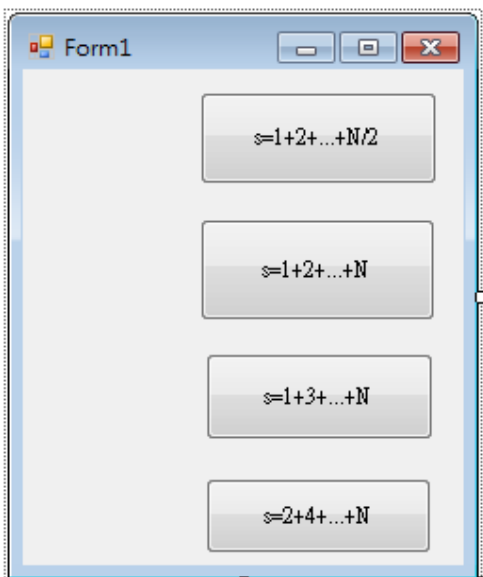


s	i	$2*i \leq N$	N	追蹤
0	1	$2*1 \leq 4 ? V$	4	
1	2	$2*2 \leq 4 ? V$		
3	3	$2*3 \leq 4 ? X$		

$$S=1+2 \qquad 2=4/2=N/2$$

s	i	$2*i \leq 8$	n
0	1	$2*1 \leq 8 V$	8
1	2	$2*2 \leq 8 V$	
3	3	$2*3 \leq 8 V$	
6	4	$2*4 \leq 8 V$	
10	5	$2*5 \leq 8 X$	

$$S=1+2+3+4 \qquad 4=8/2$$



```

Public Class Form1

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
        Dim s, n, i As Integer
        s = 0
        i = 1
        n = InputBox("n=")

        home:
        If 2 * i <= n Then
            s = s + i
            i = i + 1
            GoTo home
        Else
            MsgBox("s=1+2+...+N/2=" & s & " ")
        End If
    End Sub

    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
        Dim s, n, i As Integer
        s = 0
        i = 1
        n = InputBox("n=")

        home:
        If i <= n Then
            s = s + i
            i = i + 1
            GoTo home
        Else
            MsgBox("s=1+2+...+N=" & s & " ")
        End If
    End Sub

End Class
  
```

```
Private Sub Button3_Click(ByVal sender As System.Object)
    Dim s, n, i As Integer
    s = 0
    i = 1
    n = InputBox("n=")
home:
    If i <= n Then
        s = s + i
        i = i + 2
        GoTo home
    Else
        MsgBox("s=1+3+...+N=" & s & "    i=" & i)
    End If
End Sub
```

```
Private Sub Button4_Click(ByVal sender As System.Object)
    Dim s, n, i As Integer
    s = 0
    i = 2
    n = InputBox("n=")
home:
    If i <= n Then
        s = s + i
        i = i + 2
        GoTo home
    Else
        MsgBox("s=1+3+...+N=" & s & "    i=" & i)
    End If
End Sub
End Class
```