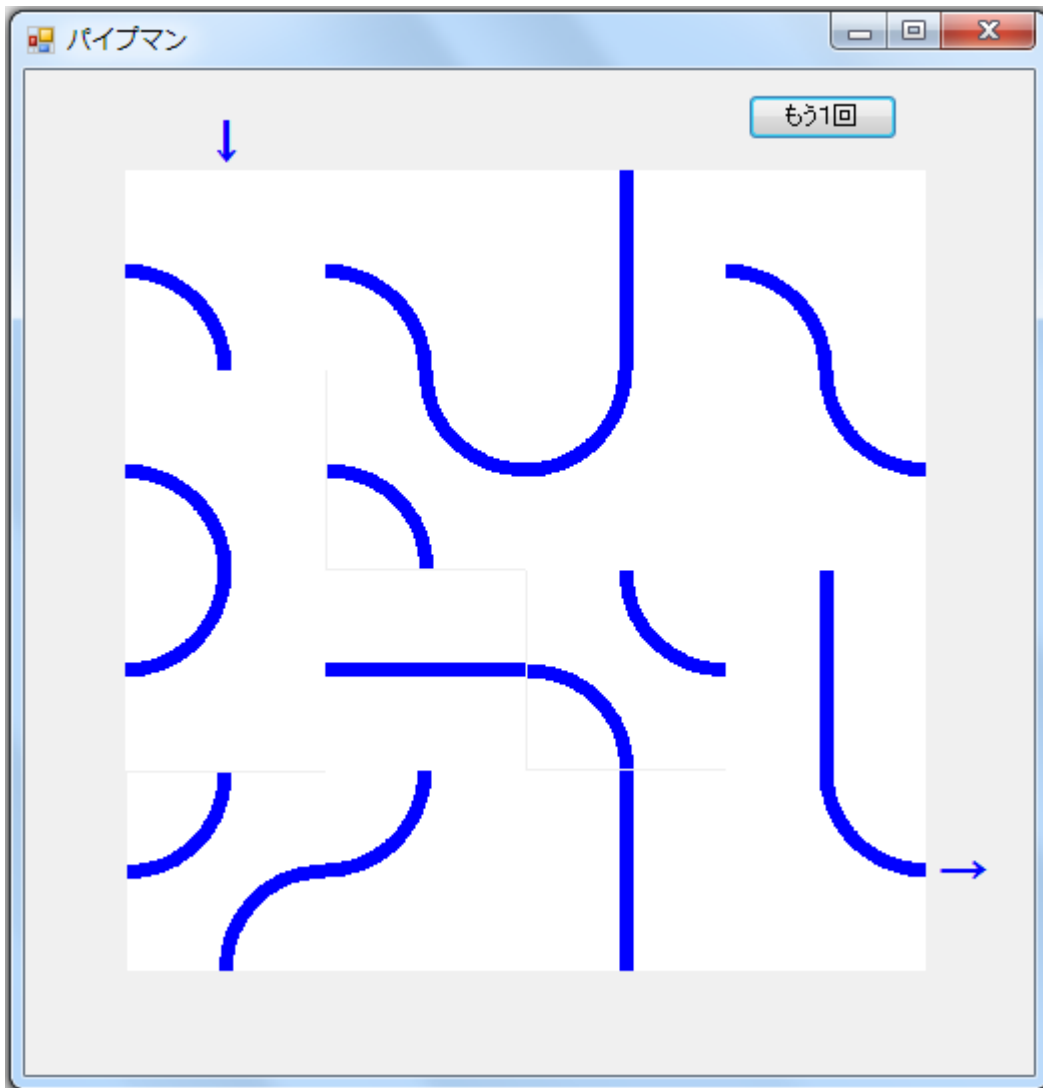
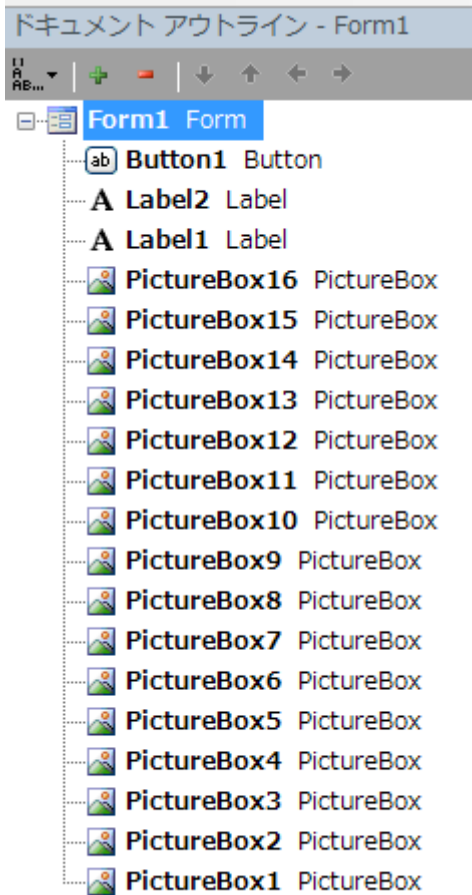


新規プロジェクト PipeMan

できあがりのフォーム



## コントロール

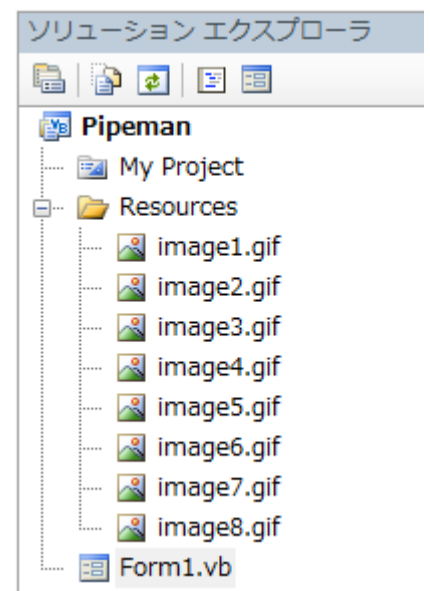


## プロパティ

PictureBox1 から PictureBox16 まで

Size           **100, 100**

ソリューションエクスプローラの My Project をダブルクリックする  
リソース → リソースの追加 → 既存のファイルの追加 をえらぶ  
ダウンロードしたファイルを選ぶ  
ソリューションエクスプローラに Resources フォルダが作られる



## ソースリスト

```
Public Class Form1
```

```
    Dim panel(17) As PictureBox
    Dim pipe(9) As Image
    Dim i, j, k, n As Integer
    Dim rnd As Random = New Random()
    Dim init(,) As Integer = {{0, 2, 4, 8, 2, 3, 5, 3, 4, 2, 8, 5, 7, 6, 4, 7, 2}, -
                             {0, 7, 8, 3, 4, 6, 6, 6, 5, 3, 1, 5, 4, 6, 8, 1, 6}, -
                             {0, 2, 8, 8, 4, 2, 3, 5, 1, 5, 8, 5, 4, 2, 8, 1, 2}}
    Dim final() As String = {"24\d\d35342857\d\d\d2", "7\d\d\d66\d\d31546816", -
                             "2884\d\d51\d\d64\d\d\d2"}
```

```
    Private Sub Form1_Load(ByVal ... ) Handles MyBase.Load
```

```
        panel(1) = PictureBox1
        panel(2) = PictureBox2
        panel(3) = PictureBox3
        panel(4) = PictureBox4
        panel(5) = PictureBox5
        panel(6) = PictureBox6
        panel(7) = PictureBox7
        panel(8) = PictureBox8
        panel(9) = PictureBox9
        panel(10) = PictureBox10
        panel(11) = PictureBox11
        panel(12) = PictureBox12
        panel(13) = PictureBox13
        panel(14) = PictureBox14
        panel(15) = PictureBox15
        panel(16) = PictureBox16
```

```
        pipe(1) = My.Resources.image1
        pipe(2) = My.Resources.image2
        pipe(3) = My.Resources.image3
        pipe(4) = My.Resources.image4
        pipe(5) = My.Resources.image5
        pipe(6) = My.Resources.image6
        pipe(7) = My.Resources.image7
        pipe(8) = My.Resources.image8
```

```
        i = rnd.Next(0, 3)
        For j = 1 To 16
            panel(j).Tag = init(i, j)
            For k = 1 To rnd.Next(0, 4)
                panel(j).Tag = rot(panel(j).Tag)
            Next
            panel(j).Image = pipe(panel(j).Tag)
        Next
```

```
    End Sub
```

```
Private Sub PictureBoxes_Click(ByVal ... ) Handles PictureBox1.Click, PictureBox2.Click,
PictureBox3.Click, PictureBox4.Click, PictureBox5.Click, PictureBox6.Click, PictureBox7.Click,
PictureBox8.Click, PictureBox9.Click, PictureBox10.Click, PictureBox11.Click, PictureBox12.Click,
PictureBox13.Click, PictureBox14.Click, PictureBox15.Click, PictureBox16.Click
```

```
    Dim pic As PictureBox = CType(sender, PictureBox)
    pic.Tag = rot(pic.Tag)
    pic.Image = pipe(pic.Tag)
    Call check()
```

```
End Sub
```

```
Private Sub Button1_Click(ByVal ... ) Handles Button1.Click
```

```
    Call Form1_Load(sender, e)
```

```
End Sub
```

```
Private Function rot(ByVal n As Integer) As Integer
```

```
    Select Case n
        Case 1
            n = 2
        Case 2
            n = 3
        Case 3
            n = 4
        Case 4
            n = 1
        Case 5
            n = 6
        Case 6
            n = 5
        Case 7
            n = 8
        Case 8
            n = 7
    End Select
    Return n
```

```
End Function
```

```
Private Sub check()
```

```
    Dim pattern As String = ""
    For j = 1 To 16
        pattern = pattern & panel(j).Tag
    Next
    If System.Text.RegularExpressions.Regex.IsMatch(pattern, final(i)) Then
        MessageBox.Show("Congratulations!")
    End If
```

```
End Sub
```

```
End Class
```