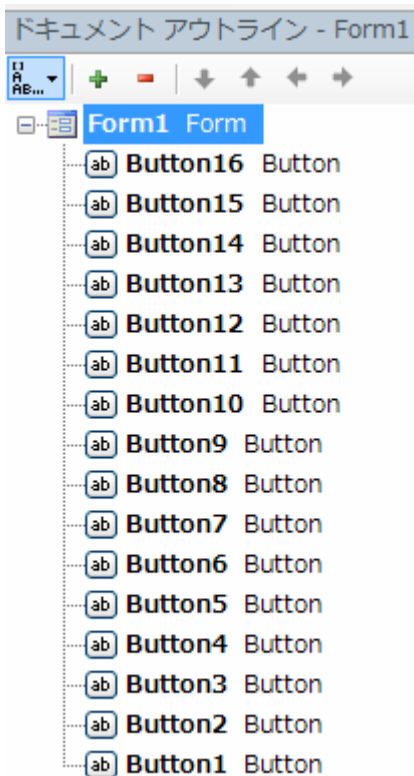


新規プロジェクト FifteenGame

できあがりのフォーム



コントロール



プロパティ

Button1 から **Button16** まで

Size 75, 75

ソースリスト

```
Public Class Form1
```

```
    Dim btn(4, 4) As Button  
    Dim rnd As Random = New Random()  
    Dim i1, j1, i2, j2, wk As Integer
```

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

```
        btn(1, 1) = Button1  
        btn(1, 2) = Button2  
        btn(1, 3) = Button3  
        btn(1, 4) = Button4  
        btn(2, 1) = Button5  
        btn(2, 2) = Button6  
        btn(2, 3) = Button7  
        btn(2, 4) = Button8  
        btn(3, 1) = Button9  
        btn(3, 2) = Button10  
        btn(3, 3) = Button11  
        btn(3, 4) = Button12  
        btn(4, 1) = Button13  
        btn(4, 2) = Button14  
        btn(4, 3) = Button15  
        btn(4, 4) = Button16
```

```
        For i As Integer = 1 To 4  
            For j As Integer = 1 To 4  
                btn(i, j).Font = New Font("Impact", 32)  
                btn(i, j).ForeColor = Color.Green  
                btn(i, j).Text = 4 * (i - 1) + j  
            Next  
        Next  
        btn(4, 4).Text = " "  
        For k As Integer = 1 To 20  
            i1 = rnd.Next(1, 5)  
            j1 = rnd.Next(1, 5)  
            i2 = rnd.Next(1, 5)  
            j2 = rnd.Next(1, 5)  
            swap(i1, j1, i2, j2)  
        Next
```

```
        Button16.Select()
```

```
    End Sub
```

```
    Private Sub swap(ByVal i1 As Integer, ByVal j1 As Integer, ByVal i2 As Integer, ByVal j2 As Integer)
```

```
        If (i1 = 4 And j1 = 4) Or (i2 = 4 And j2 = 4) Then  
            Exit Sub  
        Else  
            wk = btn(i1, j1).Text  
            btn(i1, j1).Text = btn(i2, j2).Text  
            btn(i2, j2).Text = wk  
        End If
```

```
    End Sub
```

```
Private Sub Buttons_Click(ByVal ... ) Handles Button1.Click, Button2.Click, Button3.Click, Button4.Click, Button5.Click, Button6.Click, Button7.Click, Button8.Click, Button9.Click, Button10.Click, Button11.Click, Button12.Click, Button13.Click, Button14.Click, Button15.Click, Button16.Click
```

```
    For i As Integer = 1 To 4
        For j As Integer = 1 To 4
            If sender Is btn(i, j) Then
                Call check(i, j)
                Exit Sub
            End If
        Next
    Next
```

```
End Sub
```

```
Private Sub check(ByVal i As Integer, ByVal j As Integer)
```

```
    If i <> 1 AndAlso btn(i - 1, j).Text Is " " Then
        btn(i - 1, j).Text = btn(i, j).Text
        btn(i, j).Text = " "
    End If
    If i <> 4 AndAlso btn(i + 1, j).Text Is " " Then
        btn(i + 1, j).Text = btn(i, j).Text
        btn(i, j).Text = " "
    End If
    If j <> 1 AndAlso btn(i, j - 1).Text Is " " Then
        btn(i, j - 1).Text = btn(i, j).Text
        btn(i, j).Text = " "
    End If
    If j <> 4 AndAlso btn(i, j + 1).Text Is " " Then
        btn(i, j + 1).Text = btn(i, j).Text
        btn(i, j).Text = " "
    End If
```

```
End Sub
```

```
End Class
```