

```
Imports System.Text
```

```
Public Class Form1
```

```
Dim suit(3) As String '記錄花色  
Dim po() = {"A", "2", "3", "4", "5", "6", "7", "8", "9", "10", "J", "Q", "K"} '記錄點數  
Dim va() = {13, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12} '記錄比值  
Dim mark(51) As Integer '以註標代表牌編號，記錄是否發過牌(0未發1已發)  
Dim play, bank, ans As New ArrayList '記錄每一局玩家、莊家的牌編號，以及比牌結果  
Dim rno As Integer '比牌的局數(輸入檔的第1筆資料)
```

```
Private Sub Form1_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load
```

```
suit(0) = Encoding.UTF8.GetString({226, 153, 160})  
suit(1) = Encoding.UTF8.GetString({226, 153, 165})  
suit(2) = Encoding.UTF8.GetString({226, 153, 166})  
suit(3) = Encoding.UTF8.GetString({226, 153, 163})  
Call rdata()  
Call sp()  
Call wdata()
```

```
End Sub
```

```
Sub rdata()
```

```
FileOpen(7, "C:\test\1060307.T01", OpenMode.Input)  
Input(7, rno) '有rno局  
Dim r As Single '用來讀取隨機數  
Dim k As Integer '將隨機數換算成牌編號0~51  
For i = 1 To rno * 2 '每局要發2張牌  
Do  
Input(7, r) '輸入隨機數  
k = Int(r * 52) '將隨機數*52再捨小數，變成牌編號  
Loop While mark(k) = 1 '若mark(k)=1，代表牌編號k已發過  
mark(k) = 1 '抽出來的牌編號標示為已發過  
If i Mod 2 = 1 Then 'i為奇數代表每一局的第1張牌，要發給玩家  
play.Add(k)  
Else  
bank.Add(k) 'i為偶數代表每一局的第2張牌，要發給莊家  
End If
```

```
Next
```

```
FileClose(7)
```

```
End Sub
```

```
Sub sp()
```

```
For i = 0 To rno - 1 'Arraylist註標從0開始到rno-1，共rno局  
  
'va的註標用「牌編號 mod 13」得到0~12，再帶出玩家和莊家的比值，來比大小  
If va(play(i) Mod 13) > va(bank(i) Mod 13) Then ans.Add("玩家贏")  
If va(play(i) Mod 13) = va(bank(i) Mod 13) Then ans.Add("平手")  
If va(play(i) Mod 13) < va(bank(i) Mod 13) Then ans.Add("莊家贏")
```

```
Next
```

```
End Sub
```

```
Sub wdata()
```

```
Dim dt As New DataTable  
dt.Columns.Add("序號")  
dt.Columns.Add("玩家")  
dt.Columns.Add("莊家")  
dt.Columns.Add("結果")
```

```
For i = 0 To rno - 1
    Dim dr As DataRow = dt.NewRow
    dr(0) = i + 1
    dr(1) = suit(play(i) \ 13) & po(play(i) Mod 13) 'suit的註標用「牌編號 \ 13」得0~3，再帶出花色
    dr(2) = suit(bank(i) \ 13) & po(bank(i) Mod 13) 'po的註標用「牌編號 mod 13」得0~12，再帶出點數
    dr(3) = ans(i)
    dt.Rows.Add(dr)
Next
```

```
dgv.DataSource = dt
```

```
End Sub
```

```
End Class
```