```vb
1   Imports System.Text
2
3   Public Class Form1
4       '*****************************
5       '* 11900-1060307 Program Start *
6       '*****************************
7
8       Dim suit(4) As String      '花色
9       Dim mark(51) As Integer '0沒有發過牌 1有發過牌
10      Dim card_p() = {"A", "2", "3", "4", "5", "6", "7", "8", "9", "10", "J",
        "Q", "K"}     '點數
11      Dim card_v() = {13, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12}    '比值
12      Dim gn As Integer     '遊戲次數
13      Dim play, bank, result As New ArrayList '紀錄發給玩家和莊家的牌以及比大小後的
        結果
14
15      Private Sub Form1_Load(sender As Object, e As EventArgs) Handles
        MyBase.Load
16          '宣告花色
17          suit(0) = Encoding.UTF8.GetString({226, 153, 160})
18          suit(1) = Encoding.UTF8.GetString({226, 153, 165})
19          suit(2) = Encoding.UTF8.GetString({226, 153, 166})
20          suit(3) = Encoding.UTF8.GetString({226, 153, 163})
21
22          Call rdata()
23          Call game()
24          Call wdata()
25      End Sub
26
27      Sub rdata() '讀資料
28          FileOpen(1, "C:\Users\mshome\source\11900\範例光碟\1060307.SM",
            OpenMode.Input)
29          Input(1, gn)      '第一筆為遊戲次數
30          For i = 1 To gn * 2
31              Dim r As Single '存隨機數
32              Dim k As Integer      '轉換成牌編號
33              Do
34                  Input(1, r)
35                  k = Int(r * 52) 'Int()無條件捨去小數點
36              Loop While mark(k) = 1   '不斷重複迴圈直到抽到的牌沒有被重複抽到
37              mark(k) = 1 '標示已經被抽過
38              If i Mod 2 = 1 Then
39                  play.Add(k) '牌發給玩家
40              Else
41                  bank.Add(k) '牌發給莊家
42              End If
43          Next
44      End Sub
45
46      Sub game()   '比大小
47          For i = 0 To gn - 1 'ArrayList從0開始
48              Dim a As Integer      '紀錄比值相減的結果
49
```

```vb
50                      '算出各自的比值後相減
51                      '算比值：先將抽到的牌編號/13取餘數，得出0~12的結果，再到card_v()對應出 ⮑
                            比值
52                      a = card_v(play(i) Mod 13) - card_v(bank(i) Mod 13)
53                      Select Case a
54                          Case Is > 0
55                              result.Add("玩家贏")
56                          Case 0
57                              result.Add("平手")
58                          Case Is < 0
59                              result.Add("莊家贏")
60                      End Select
61              Next
62          End Sub
63
64          Sub wdata() '輸出結果
65              Dim dt As New DataTable '新增資料表
66
67              dt.Columns.Add("序號")      '新增欄位名稱
68              dt.Columns.Add("玩家")
69              dt.Columns.Add("莊家")
70              dt.Columns.Add("結果")
71
72              For i = 0 To gn - 1
73                  Dim dr As DataRow = dt.NewRow     '新增一列
74                  dr(0) = i + 1     '序號
75                  dr(1) = suit(play(i) \ 13) & card_p(play(i) Mod 13) '花色：取牌編 ⮑
                        號/13的整數  點數：取牌編號/13的餘數
76                  dr(2) = suit(bank(i) \ 13) & card_p(bank(i) Mod 13)
77                  dr(3) = result(i)     '結果
78
79                  dt.Rows.Add(dr) '將列新增到資料表
80              Next
81
82              dgv.DataSource = dt      '資料表內容顯示在dgv上
83          End Sub
84  End Class
85
```