

```
Public Class Form1
```

```
Dim data(100, 4)
```

```
Dim rno As Integer
```

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

```
Call rdata()
```

```
For i = 0 To rno - 1 '記錄從data(0 ~ rno-1, ) 共有rno筆記錄
```

```
    If data(i, 4) = "" Then Call sp1(i)
```

```
    If data(i, 4) = "" Then Call sp2(i)
```

```
    If data(i, 4) = "" Then Call sp3(i)
```

```
Next
```

```
Call wdata()
```

```
End Sub
```

```
Sub rdata()
```

```
FileOpen(6, "C:\test\1060306.T01", OpenMode.Input)
```

```
Do Until EOF(6)
```

```
    Input(6, data(rno, 1)) 'data(__,1)為身份證
```

```
    Input(6, data(rno, 2)) 'data(__,2)為姓名
```

```
    Input(6, data(rno, 3)) 'data(__,3)為性別
```

```
    rno += 1 'rno從0開始，每讀完一筆記錄就+1
```

```
Loop
```

```
FileClose(6) '記錄從data(0, ) ~ data(rno-1, ), 共有rno筆記錄
```

```
End Sub
```

```
Sub sp1(i)
```

```
    If Not data(i, 1) Like "[A-Z]#####" Then data(i, 4) = "FORMAT ERROR"
```

```
End Sub
```

```
Sub sp2(i)
```

```
Dim s = Mid(data(i, 1), 2, 1) & data(i, 3)
```

```
If Not (s = "1M" Or s = "2F") Then data(i, 4) = "SEX CODE ERROR"
```

```
End Sub
```

```
Sub sp3(i)
```

```
Dim x, x1, x2, y As Integer
```

```
x = InStr("ABCDEFGHJKLMNOPQRSTUVWXYZIO", Mid(data(i, 1), 1, 1)) + 9
```

```
x1 = x \ 10
```

```
x2 = x Mod 10
```

```
y = x1 + 9 * x2 + Mid(data(i, 1), 10, 1)
```

```
For j = 2 To 9
```

```
    y += (10 - j) * Mid(data(i, 1), j, 1)
```

```
Next
```

```
If y Mod 10 <> 0 Then data(i, 4) = "CHECK SUM ERROR"
```

```
End Sub
```

```
Sub wdata()
```

```
Dim dt As New DataTable
```

```
dt.Columns.Add("ID_NO")
```

```
dt.Columns.Add("NAME")
```

```
dt.Columns.Add("SEX")
```

```
dt.Columns.Add("ERROR")
```

```
For i = 0 To rno - 1
```

```
    Dim dr As DataRow = dt.NewRow
```

```
    dr(0) = data(i, 1)
```

```
    dr(1) = data(i, 2)
```

```
    dr(2) = data(i, 3)
```

```
dr(3) = data(i, 4)  
dt.Rows.Add(dr)
```

```
Next
```

```
dgv.DataSource = dt  
dgv.Sort(dgv.Columns(0), 0)  
dgv.Columns(3).Width = 150
```

```
End Sub
```

```
End Class
```