



```

1 Public Class Form1
2     '*****
3     '* 11900-1060308 Program Start *
4     '*****
5
6     Dim b, a, op, y, x, ans As New ArrayList
7     Dim rno As Integer = 0
8     Private Sub Form1_Load(sender As Object, e As EventArgs) Handles 
9         MyBase.Load
10         Call rdata()
11         Call sp()
12         Call wdata()
13     End Sub
14
15     Sub rdata()
16         FileOpen(1, "C:\Users\mshome\source\11900\範例光碟\1060308.SM", ,
17             OpenMode.Input)
18         Do While Not EOF(1)
19             Dim d
20             rno = rno + 1
21             Input(1, d) : b.Add(d)
22             Input(1, d) : a.Add(d)
23             Input(1, d) : op.Add(d)
24             Input(1, d) : y.Add(d)
25             Input(1, d) : x.Add(d)
26         Loop
27         FileClose(1)
28     End Sub
29
30     Sub sp()
31         For i = 0 To rno - 1
32             Dim m0, m1 As Integer
33             Select Case op(i)
34                 Case "+"
35                     m0 = b(i) * x(i) + a(i) * y(i)
36                     m1 = a(i) * x(i)
37                 Case "-"
38                     m0 = b(i) * x(i) - a(i) * y(i)
39                     m1 = a(i) * x(i)
40                 Case "*"
41                     m0 = b(i) * y(i)
42                     m1 = a(i) * x(i)
43                 Case "/"
44                     m0 = b(i) * x(i)
45                     m1 = a(i) * y(i)
46             End Select
47
48             Dim j As Integer = 2
49             Do While j <= m0 And j <= m1
50                 Do While m0 Mod j = 0 And m1 Mod j = 0
51                     m0 = m0 / j
52                     m1 = m1 / j
53                 Loop
54             Loop
55         Next i
56     End Sub
57 End Class

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52         j = j + 1
53     Loop
54
55     If m0 = 0 Then
56         ans.Add(0)
57     ElseIf m1 = 1 Then
58         ans.Add(m0)
59     Else
60         ans.Add(m0 & "/" & m1)
61     End If
62 Next
63 End Sub
64
65 Sub wdata()
66     Dim dt As New DataTable
67     dt.Columns.Add("VALUE1")
68     dt.Columns.Add("OP")
69     dt.Columns.Add("VALUE2")
70     dt.Columns.Add("ANSWER")
71
72     For i = 0 To rno - 1
73         Dim dr As DataRow = dt.NewRow
74         dr(0) = b(i) & "/" & a(i)
75         dr(1) = op(i)
76         dr(2) = y(i) & "/" & x(i)
77         dr(3) = ans(i)
78         dt.Rows.Add(dr)
79     Next
80
81     dgv.DataSource = dt
82 End Sub
83 End Class
84
```