**Problem 1：字串的處理**

子題 2：在此子題中，「邏輯表示式」除了「true」、「false」、「==」、「!=」及「空格」外，另外有一個變數「a」。其中「a」的值可能是「true」或「false」其中之一。已知輸入檔中所有的邏輯表示式「結果均為『真』」，請選手判斷輸入檔各表示式中「a」的值，並依序輸出至輸出檔中。

輸入說明：

共有4 行資料，每行有1 個邏輯表示式，每行最多120 個字。

輸出說明：

共4 行，分別列出輸入檔中對應行數的邏輯表示式內「a」的值。若「a」的值為「true」，輸

出「TRUE」，反之輸出「FALSE」。（輸出均為大寫，選手請注意。）

輸入範例：【檔名：in-1-2.txt】

true==false==a==true!=false

a!=false==true!=false==true

false==true==true!=false!=true!=false==a==true

true==false==true!=false==a

輸出範例：【檔名：out-1-2.txt】

FALSE

TRUE

TRUE

FALSE

程式碼：

Imports System.IO

Public Class Form1

Dim fr As New FileInfo("in1-2.txt")

Dim fw As New FileInfo("out1-2.txt")

Dim sw As StreamWriter = fw.CreateText

Dim ii, aa, bb, cc, a As String

Dim n, x As Integer

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

If fr.Exists = False Then

End

ElseIf fw.Exists = False Then

fw.Create()

End If

Dim sr As StreamReader = fr.OpenText

Do

ii = sr.ReadLine

If ii = "" Then Exit Do

For i = 1 To Len(ii)

If Microsoft.VisualBasic.Mid(ii, i + 2, 1) = "a" Or Microsoft.VisualBasic.Mid(ii, i, 1) = "a" Then : x = i : Exit For

ElseIf Microsoft.VisualBasic.Mid(ii, i, 2) <> "!=" And Microsoft.VisualBasic.Mid(ii, i, 2) <> "==" And i <= 5 Then

aa &= Microsoft.VisualBasic.Mid(ii, i, 1)

ElseIf Microsoft.VisualBasic.Mid(ii, i, 2) = "!=" Or Microsoft.VisualBasic.Mid(ii, i, 2) = "==" Then

bb = ""

For j = i + 2 To Len(ii)

If Microsoft.VisualBasic.Mid(ii, j, 1) = "!" Or Microsoft.VisualBasic.Mid(ii, j, 1) = "=" Then Exit For

bb &= Microsoft.VisualBasic.Mid(ii, j, 1) : i += 1

Next

i += 1

If Microsoft.VisualBasic.Mid(ii, i + 1, 2) = "!=" Then

If aa <> bb Then : aa = "true"

ElseIf aa = bb Then : aa = "false"

End If

ElseIf Microsoft.VisualBasic.Mid(ii, i + 1, 2) = "==" Then

If aa = bb Then : aa = "true"

ElseIf aa <> bb Then : aa = "false"

End If

End If

End If

Next

bb = "true"

1: For i = Len(ii) To x - 3 Step -1

If ii = "a" Then

a = bb: Exit For

ElseIf Microsoft.VisualBasic.Mid(ii, i, 2) = "=a" Then

If Microsoft.VisualBasic.Mid(ii, i - 1, 2) = "==" Then

If aa = "true" Then

If bb = "true" Then : a = "true"

ElseIf bb = "false" Then : a = "false"

End If

ElseIf aa = "false" Then

If bb = "true" Then : a = "false"

ElseIf bb = "false" Then : a = "true"

End If

End If

ElseIf Microsoft.VisualBasic.Mid(ii, i - 1, 2) = "!=" Then

If aa = "true" Then

If bb = "true" Then : a = "false"

ElseIf bb = "false" Then : a = "true"

End If

ElseIf aa = "false" Then

If bb = "true" Then : a = "true"

ElseIf bb = "false" Then : a = "false"

End If

End If

End If

Exit For

ElseIf Microsoft.VisualBasic.Mid(ii, i, 1) = "=" Or Microsoft.VisualBasic.Mid(ii, i, 1) = "!" Then

cc = ""

For j = i + 1 To Len(ii)

cc &= Microsoft.VisualBasic.Mid(ii, j, 1)

Next

If Microsoft.VisualBasic.Mid(ii, i - 1, 2) = "==" Then

If bb = "true" Then : bb = cc

ElseIf bb = "false" Then

If cc = "true" Then : bb = "false"

ElseIf cc = "false" Then : bb = "true"

End If

End If

ElseIf Microsoft.VisualBasic.Mid(ii, i - 1, 2) = "!=" Then

If cc = "true" Then

If bb = "true" Then : bb = "false"

ElseIf bb = "false" Then : bb = "true"

End If

ElseIf cc = "false" Then

If bb = "true" Then : bb = "true"

ElseIf bb = "false" Then : bb = "false"

End If

End If

End If

ii = Microsoft.VisualBasic.Left(ii, i - 2) : GoTo 1

End If

Next

For i = 1 To Len(a)

sw.Write(Chr(Asc(Microsoft.VisualBasic.Mid(a, i, 1)) - 32))

Next

sw.WriteLine()

Loop

sw.Flush() : sw.Close() : End

End Sub

End Class