# Q003聯集

讀入2個正整數a,b，請輸出介於a,b之間（包含a,b）2,3,5倍數的聯集大小。

**Input**

輸入可能包含了好幾列測試資料，每一列有2個整數a,b。  
a=0 b=0 代表輸入結束。

**Output**

對每一列輸入，請輸出聯集的大小。請參考Sample Output

**Sample Input**

1 10

10 20

0 0

**Sample Output**

8

7

程式碼

Imports System.IO

Public Class Form1

Dim fr As New FileInfo("input.txt")

Dim fw As New FileInfo("output.txt")

Dim sw As StreamWriter = fw.CreateText

Dim ia(2), b As String

Dim a, x, n 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

ia(a) = Trim(sr.ReadLine)

If ia(a) = "0 0" Then Exit Do

a += 1

ReDim Preserve ia(a)

Loop

Dim ib(a - 1, 2) As Integer

For i = 0 To a - 1

For j = 1 To Len(ia(i))

If Microsoft.VisualBasic.Mid(ia(i), j, 1) = " " Then

ib(i, 0) = Val(b)

b = ""

Else

b &= Microsoft.VisualBasic.Mid(ia(i), j, 1)

End If

Next

ib(i, 1) = Val(b)

b = ""

If ib(i, 1) > ib(i, 0) Then

x = 1

Else : x = -1

End If

For j = ib(i, 0) To ib(i, 1) Step x

If j Mod 2 = 0 Or j Mod 3 = 0 Or j Mod 5 = 0 Then

ib(i, 2) += 1

End If

Next

sw.WriteLine(ib(i, 2))

Next

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

End Sub

End Class