

Jmp_VBA.bas

```

0001 Attribute VB_Name = "JMP_VBA"
0002 Option Explicit
0003
0004 'Private m_BF As New cBrowseFolder
0005 Dim t_sub(300, 4) As String
0006 Dim g_ind_sub As Integer
0007
0008 Dim t_call(100, 3) As String
0009 Dim g_ind_call As Integer
0010
0011 Dim t_raiz(100, 3) As String
0012 Dim g_ind_raiz As Integer
0013
0014 Dim t_arbol(300, 5) As String
0015 Dim g_ind_arbol As Integer
0016
0017 Dim g_sub_activa As String
0018

```

JMP_VBA

```

0066 +-----+> V00_tratar_modulo ( 79 )
0098 |       +-----+> V01_examinar_lineas ( 269 )
0293 |       |       +-----+> V04_examinar_sub ( 323 )
0302 |       |       +-----+> V06_examinar_call ( 362 )
0104 |       +-----+> V10_extraer_raices ( 405 )
0110 |       +-----+> V12_generar_arbol ( 434 )
0447 |       |       +-----+> V12_generar_arbol ( 434 )
0119 |       +-----+> V02_escribir_rutinas ( 140 )
0203 |       |       +-----+> V20_dibujar_arbol ( 618 )
0660 |       |       |       +-----+> V40_Pasar_num_a_cadena ( 722 )
0675 |       |       |       +-----+> V20_dibujar_arbol ( 618 )
0231 |       |       +-----+> V40_Pasar_num_a_cadena ( 722 )
0257 |       |       +-----+> V22_escribir_indice ( 683 )
0260 |       |       +-----+> V14_activar_marcadores ( 452 )
0264 |       |       +-----+> V15_Buscar_y_poner_hiperlink ( 516 )

```

```

0019 Sub JMP_VBA()
0020
0021 '-----
0022 'seleccionar el amarillo como opcion de texto resaltado
0023 '-----
0024 Options.DefaultHighlightColorIndex = wdYellow
0025
0026 '-----
0027 'preguntar antes de borrar
0028 '-----
0029 Dim w_num_char As Double
0030 w_num_char = ActiveDocument.Words.Count
0031
0032 If w_num_char > 10 Then

```

```

0033         If vbOK = MsgBox("El documento no es un documento en blanco" & vbCrLf _
0034             & "Numero de caracteres del documento: " & w_num_char & vbCrLf _
0035             & "¿Desea que se borre TODO EL CONTENIDO del documento?" _
0036             , vbOKCancel + vbInformation, "limpiar documento") Then
0037             'seguir en secuencia
0038         Else
0039             Exit Sub
0040         End If
0041
0042     End If
0043
0044     'limpiar el documento actual
0045
0046     Selection.WholeStory
0047     Selection.Delete Unit:=wdCharacter, Count:=1
0048
0049     g_ind_sub = 0
0050     g_sub_activa = ""
0051
0052     ' recupera una lista de ficheros
0053
0054     'Declare la variable fd como objeto FileDialog
0055     Dim fd As FileDialog
0056
0057     Set fd = Application.FileDialog(msoFileDialogFilePicker)
0058     Dim vrtSelectedItem As Variant
0059     With fd
0060
0061         .Filters.Clear
0062         .Filters.Add "All files", "*.*"
0063         .Filters.Add "Scripts", "*.bas; *.txt", 1
0064         If .Show = -1 Then
0065             For Each vrtSelectedItem In .SelectedItems
0066                 Call V00\_tratar\_modulo(vrtSelectedItem)
0067             Next vrtSelectedItem
0068         Else
0069             'Tratamiento al pulsar Cancel.
0070         End If
0071     End With
0072
0073     Set fd = Nothing
0074
0075     MsgBox "El Proceso ha terminado con éxito"
0076
0077 End Sub
0078

```

V00_tratar_modulo

```

0098     +-----+> V01\_examinar\_lineas ( 269 )
0293         +-----+> V04\_examinar\_sub ( 323 )
0302             +-----+> V06\_examinar\_call ( 362 )
0104         +-----+> V10\_extraer\_raices ( 405 )
0110         +-----+> V12\_generar\_arbol ( 434 )
0447             +-----+> V12\_generar\_arbol ( 434 )
0119         +-----+> V02\_escribir\_rutinas ( 140 )
0203             +-----+> V20\_dibujar\_arbol ( 618 )
0660                 +-----+> V40\_Pasar\_num\_a\_cadena ( 722 )
0675                 +-----+> V20\_dibujar\_arbol ( 618 )

```

```

0231      |      |      | +-----+> V40\_Pasar\_num\_a\_cadena ( 722 )
0257      |      |      | +-----+> V22\_escribir\_indice ( 683 )
0260      |      |      | +-----+> V14\_activar\_marcadores ( 452 )
0264      |      |      | +-----+> V15\_Buscar\_y\_poner\_hiperlink ( 516 )

```

```

0079 Sub V00\_tratar\_modulo(ByVal p_fichero As String)
0080
0081 'debug.print p_fichero
0082 If Trim(p_fichero) = "" Then Exit Sub
0083
0084 g_ind_sub = 0
0085 g_ind_call = 0
0086 g_sub_activa = ""
0087
0088 '-----
0089 'borrar marcadores
0090 '-----
0091 Do While ActiveDocument.Bookmarks.Count > 0
0092     ActiveDocument.Bookmarks.Item(1).Delete
0093 Loop
0094
0095 '-----
0096 'extraer sub
0097 '-----
0098 Call V01\_examinar\_lineas(p_fichero, 1)
0099
0100 '-----
0101 'Tratar raices
0102 '-----
0103 g_ind_raiz = 0
0104 Call V10\_extraer\_raices
0105
0106 g_ind_arbol = 0
0107 Dim x As Integer
0108 For x = 1 To g_ind_raiz
0109     'debug.print t_raiz(x, 1)
0110     Call V12\_generar\_arbol(t_raiz(x, 1), 1)
0111 Next x
0112 For x = 1 To g_ind_arbol
0113     'debug.print t_arbol(x, 1), t_arbol(x, 2), t_arbol(x, 3), t_arbol(x, 4)
0114 Next x
0115
0116 '-----
0117 'Escribir modulo
0118 '-----
0119 Call V02\_escribir\_rutinas(p_fichero)
0120 Selection.WholeStory
0121 Selection.Font.Name = "Courier New"
0122
0123 '-----
0124 ' formatear pagina
0125 '-----
0126 Selection.WholeStory
0127 Selection.Font.Name = "Courier New"
0128 Selection.Font.Size = 9
0129
0130 Selection.PageSetup.LeftMargin = CentimetersToPoints(0.9)
0131 With Selection.ParagraphFormat
0132     .LeftIndent = CentimetersToPoints(0)
0133     .SpaceBeforeAuto = False
0134     .SpaceAfterAuto = False
0135 End With
0136 Selection.PageSetup.RightMargin = CentimetersToPoints(0.9)

```

```
0137
0138 End Sub
0139
```

V02_escribir_rutinas

```
0203      +-----+> V20\_dibujar\_arbol ( 618 )
0660      |
0660      |      +-----+> V40\_Pasar\_num\_a\_cadena ( 722 )
0675      |      |
0675      |      |      +-----+> V20\_dibujar\_arbol ( 618 )
0231      |      |
0231      |      |      +-----+> V40\_Pasar\_num\_a\_cadena ( 722 )
0257      |      |
0257      |      |      +-----+> V22\_escribir\_indice ( 683 )
0260      |      |
0260      |      |      +-----+> V14\_activar\_marcadores ( 452 )
0264      |      |
0264      |      |      +-----+> V15\_Buscar\_y\_poner\_hiperlink ( 516 )
```

```
0140 Sub V02\_escribir\_rutinas(ByVal p_fichero As String)
0141
0142     'debug.print    p_fichero
0143     If Trim(p_fichero) = "" Then Exit Sub
0144
0145     '-----
0146     'posicionarse al final del documento
0147     '-----
0148     Selection.EndKey Unit:=wdStory
0149
0150     '-----
0151     ' definir los margenes
0152     '-----
0153     Selection.WholeStory
0154     Selection.PageSetup.LeftMargin = CentimetersToPoints(0.9)
0155     Selection.PageSetup.RightMargin = CentimetersToPoints(0.9)
0156
0157     '-----
0158     ' establece el tamaño
0159     '-----
0160     Selection.WholeStory
0161     Selection.Font.Name = "Courier New"
0162     Selection.Font.Size = 9
0163
0164     '-----
0165     'Escribir nombre del modulo
0166     '-----
0167     Dim w_linea As String
0168     Selection.InsertBreak Type:=wdPageBreak
0169     Selection.Style = ActiveDocument.Styles("Título 1")
0170
0171     Selection.TypeText Text:=p_fichero
0172     Selection.TypeText Text:=vbCrLf
0173     Selection.Style = ActiveDocument.Styles("normal")
0174     Selection.TypeText Text:=vbCrLf
0175
0176     Dim w_num_lin As Integer
0177     Dim w_num_lin_a As String
0178
0179     Dim w_comentario As Boolean
0180     Dim w_comentario2 As Boolean
0181
0182     'debug.print    p_fichero
0183     Dim w_ini_sub As Integer
0184     w_ini_sub = 1
0185
0186     Open p_fichero For Input As #1      ' Abre el archivo.
```

```

0187 Do While Not EOF(1) ' Busca el fin del archivo.
0188
0189 Line Input #1, w_linea ' Lee la línea de datos.
0190 w_num_lin = w_num_lin + 1
0191
0192 '-----
0193 'escribir separador rutinas
0194 '-----
0195 Dim x As Integer
0196 If w_num_lin = t_sub(w_ini_sub, 2) Then
0197 For x = 1 To 2
0198 If x = 2 Then
0199 Selection.Font.Size = 11
0200 Selection.Font.Bold = True
0201 Selection.TypeText Text:=Space(14) & t_sub(w_ini_sub, 1) & vbCrLf
0202 Selection.Font.Bold = False
0203 Call V20\_dibujar\_arbol(t_sub(w_ini_sub, 1))
0204 End If
0205 Selection.Shading.BackgroundPatternColor = wdColorTan
0206 Selection.TypeText Text:=Space(70) & vbCrLf
0207 Next x
0208 If w_ini_sub < g_ind_sub Then
0209 w_ini_sub = w_ini_sub + 1
0210 End If
0211 Selection.HomeKey Unit:=wdLine
0212 Selection.EndKey Unit:=wdLine, Extend:=wdExtend
0213 Selection.Shading.Texture = wdTextureNone
0214 Selection.Shading.BackgroundPatternColor = wdColorAutomatic
0215 Selection.TypeText Text:=Space(70) & vbCrLf
0216 End If
0217
0218 '-----
0219 'examinar si es un comentario
0220 '-----
0221 ' If InStr(1, Trim(w_linea), "'") > 0 Then
0222 If Mid(Trim(w_linea), 1, 1) = "'" Then
0223 w_comentario = True
0224 Else
0225 w_comentario = False
0226 End If
0227
0228 '-----
0229 'colocar numero de linea en salida
0230 '-----
0231 Call V40\_Pasar\_num\_a\_cadena(w_num_lin, w_num_lin_a)
0232 w_linea = Space(7) & w_linea
0233 Mid(w_linea, 1, 4) = Mid(w_num_lin_a, 3)
0234
0235 '-----
0236 'sombrear linea de comentarios
0237 '-----
0238 Selection.HomeKey Unit:=wdLine
0239 Selection.EndKey Unit:=wdLine, Extend:=wdExtend
0240 Selection.Shading.Texture = wdTextureNone
0241
0242 If w_comentario = True Then
0243 Selection.Shading.BackgroundPatternColor = wdColorGray125
0244 Else
0245 Selection.Shading.BackgroundPatternColor = wdColorAutomatic
0246 End If
0247
0248 '-----
0249 'escribir linea
0250 '-----
0251 Selection.Font.Size = 8
0252 Selection.TypeText Text:=(w_linea & vbCrLf)
0253
0254 Loop

```

```

0255 Close #1      ' Cierra el archivo.
0256
0257 Call V22\_escribir\_indice(p_fichero)
0258
0259 For x = 1 To g_ind_sub
0260     Call V14\_activar\_marcadores(t_sub(x, 1))
0261 Next x
0262
0263 For x = 1 To g_ind_sub
0264     Call V15\_Buscar\_y\_poner\_hiperlink(t_sub(x, 1))
0265 Next x
0266
0267 End Sub
0268

```

V01_examinar_lineas

```

0293 | | | +-----+> V04\_examinar\_sub ( 323 )
0302 | | | +-----+> V06\_examinar\_call ( 362 )

```

```

0269 Sub V01\_examinar\_lineas(ByVal p_fichero As String, ByVal p_ini As Integer)
0270
0271 'debug.print p_fichero
0272 If Trim(p_fichero) = "" Then Exit Sub
0273
0274 'debug.print p_fichero
0275 If Dir(p_fichero) = "" Then Exit Sub
0276
0277 Dim w_linea As String
0278 Dim w_num_lin As Integer
0279
0280 Open p_fichero For Input As #1      ' Abre el archivo.
0281 Do While Not EOF(1)                ' Busca el fin del archivo.
0282
0283     Line Input #1, w_linea          ' Lee la línea de datos.
0284     w_num_lin = w_num_lin + 1
0285
0286     'debug.print w_linea
0287
0288     '-----
0289     'examinar si es una subrutina
0290     '-----
0291     If Len(w_linea) > 0 Then
0292         If InStr(1, w_linea, "Sub ") > 0 Then
0293             Call V04\_examinar\_sub(w_linea, w_num_lin)
0294         End If
0295     End If
0296
0297     '-----
0298     'examinar si es llamada
0299     '-----
0300     If Len(w_linea) > 0 Then
0301         If InStr(1, w_linea, "Call ") > 0 Then
0302             Call V06\_examinar\_call(w_linea, w_num_lin)
0303         End If
0304     End If
0305
0306 Loop
0307 Close #1      ' Cierra el archivo.
0308
0309 '-----
0310 ' visualizar tablas
0311 '-----
0312 ' Dim x As Integer
0313 ' For x = 1 To g_ind_sub
0314 '     Debug.Print x, t_sub(x, 1), t_sub(x, 2)

```

```

0315 ' Next x
0316 ' Debug.Print String(60, "#")
0317 ' For x = 1 To g_ind_call
0318 '     Debug.Print x, t_call(x, 1), t_call(x, 2), t_call(x, 3)
0319 ' Next x
0320
0321 End Sub
0322

```

V04_examinar_sub

```

0323 Sub V04_examinar_sub(ByRef p_linea As String, ByVal p_num_lin As Integer)
0324
0325     Dim w_pos1 As Integer
0326     Dim w_pos2 As Integer
0327     Dim w_rutina As String
0328
0329     w_pos1 = InStr(1, p_linea, "Sub ")
0330     If w_pos1 > 1 Then
0331         If Mid(p_linea, w_pos1 - 1, 1) <> " " Then
0332             Exit Sub
0333         End If
0334     End If
0335
0336     Dim w_offset As Integer
0337     w_offset = 3
0338     w_pos2 = InStr(w_pos1 + 1, p_linea, "(")
0339
0340     If w_pos2 = 0 Then
0341         w_offset = 1
0342         w_pos2 = InStr(w_pos1 + 1, p_linea, "_")
0343     End If
0344     If w_pos2 = 0 Then
0345         Exit Sub
0346     End If
0347     w_rutina = Mid(p_linea, w_pos1 + 3, w_pos2 - w_pos1 - w_offset)
0348
0349     'debug.print String(50, "=")
0350     'debug.print p_linea
0351     'debug.print w_rutina
0352
0353     g_sub_activa = w_rutina
0354     g_ind_sub = g_ind_sub + 1
0355
0356     t_sub(g_ind_sub, 1) = Trim(w_rutina)
0357     t_sub(g_ind_sub, 2) = p_num_lin
0358
0359 End Sub
0360
0361

```

V06_examinar_call

```

0362 Sub V06_examinar_call(ByRef p_linea As String, ByVal p_num_lin As Integer)
0363
0364     Dim w_pos1 As Integer
0365     Dim w_pos2 As Integer
0366     Dim w_rutina As String
0367
0368     w_pos1 = InStr(1, p_linea, "Call ")
0369     If w_pos1 > 1 Then
0370         If Mid(p_linea, w_pos1 - 1, 1) <> " " Then
0371             Exit Sub
0372         End If
0373     End If
0374

```

```

0375     If InStr(1, p_linea, "(") = 0 _
0376     And InStr(1, p_linea, "_") = 0 Then
0377         p_linea = p_linea & " ("
0378     End If
0379
0380 '     Debug.Print String(50, "**")
0381 '     Debug.Print p_linea
0382
0383     Dim w_offset As Integer
0384     w_offset = 5
0385     w_pos2 = InStr(w_pos1 + 1, p_linea, "(")
0386
0387     If w_pos2 = 0 Then
0388         w_offset = 1
0389         w_pos2 = InStr(w_pos1 + 1, p_linea, "_")
0390     End If
0391     If w_pos2 = 0 Then
0392         Exit Sub
0393     End If
0394     w_rutina = Mid(p_linea, w_pos1 + 5, w_pos2 - w_pos1 - w_offset)
0395
0396 '     Debug.Print "llama a :" & w_rutina
0397
0398     g_ind_call = g_ind_call + 1
0399     t_call(g_ind_call, 1) = g_sub_activa
0400     t_call(g_ind_call, 2) = p_num_lin
0401     t_call(g_ind_call, 3) = Trim(w_rutina)
0402
0403 End Sub
0404

```

V10_extraer_raices

```

0405 Sub V10_extraer_raices()
0406     Dim x As Integer
0407     Dim y As Integer
0408     Dim w_call As Boolean
0409
0410     For x = 1 To g_ind_sub
0411         w_call = False
0412         For y = 1 To g_ind_call
0413             If Trim(t_sub(x, 1)) = Trim(t_call(y, 3)) Then
0414                 'es un programa llamado
0415                 w_call = True
0416                 Exit For
0417             End If
0418         Next y
0419         If w_call = False Then
0420             g_ind_raiz = g_ind_raiz + 1
0421             t_raiz(g_ind_raiz, 1) = Trim(t_sub(x, 1))
0422         End If
0423     Next x
0424
0425     '-----
0426     'listar resultado
0427     '-----
0428     For x = 1 To g_ind_raiz
0429         Debug.Print x, t_raiz(x, 1)
0430     Next x
0431
0432 End Sub
0433

```

V12_generar_arbol

```

0447     |         |         |
+-----+> V12\_generar\_arbol ( 434 )

```

```

0434 Sub V12_generar_arbol(ByVal p_raiz As String, ByVal p_nivel As Integer)
0435
0436 Dim x As Integer
0437 For x = 1 To g_ind_call
0438     If Trim(p_raiz) = Trim(t_call(x, 1)) Then
0439         g_ind_arbol = g_ind_arbol + 1
0440         t_arbol(g_ind_arbol, 1) = p_raiz
0441         t_arbol(g_ind_arbol, 2) = p_nivel + 1
0442         t_arbol(g_ind_arbol, 3) = t_call(x, 3)
0443         t_arbol(g_ind_arbol, 4) = t_call(x, 2)
0444         If Trim(t_call(x, 3)) = p_raiz Then
0445             t_arbol(g_ind_arbol, 5) = "*"
0446         Else
0447             Call V12_generar_arbol(t_call(x, 3), p_nivel + 1)
0448         End If
0449     End If
0450 Next x
0451 End Sub

```

V14_activar_marcadores

```

0452 Sub V14_activar_marcadores(ByVal p_marcador As String)
0453
0454 '-----
0455 ' poner hiperlink a los seleccionados
0456 '-----
0457 Dim w_cadena_buscar As String
0458 w_cadena_buscar = "Sub " & p_marcador
0459
0460 Dim w_cadena_replace As String
0461 w_cadena_replace = "Sub " & p_marcador
0462
0463 Dim w_buscar As Boolean
0464 w_buscar = True
0465
0466 Dim myrange As Object
0467 Set myrange = ActiveDocument.Content
0468 myrange.Find.Execute FindText:=w_cadena_buscar, Forward:=True
0469 If myrange.Find.Found = False Then
0470     w_buscar = False
0471 Else
0472     Selection.Find.ClearFormatting
0473     With Selection.Find
0474         .Text = w_cadena_buscar
0475         .Replacement.Text = w_cadena_replace
0476         .Forward = True
0477         .Wrap = wdFindContinue
0478         .Format = False
0479         .MatchCase = False
0480         .MatchWholeWord = False
0481         .MatchWildcards = False
0482         .MatchSoundsLike = False
0483         .MatchAllWordForms = False
0484     End With
0485     Selection.Find.Execute
0486     '-----
0487     'registra como marcador el nombre del parrafo
0488     '-----
0489     ActiveDocument.Bookmarks.Add Name:=p_marcador, _
0490         Range:=Selection.Range
0491 End If
0492
0493 '-----
0494 ' resaltar nombres
0495 '-----
0496 Selection.Find.ClearFormatting

```

```

0497 Selection.Find.Replacement.ClearFormatting
0498 Selection.Find.Replacement.Highlight = True
0499 With Selection.Find
0500     .Text = p_marcador
0501     .Replacement.Text = p_marcador
0502     .Forward = True
0503     .Wrap = wdFindAsk
0504     .Wrap = wdFindContinue
0505     .Format = True
0506     .MatchCase = False
0507     .MatchWholeWord = False
0508     .MatchWildcards = False
0509     .MatchSoundsLike = False
0510     .MatchAllWordForms = False
0511 End With
0512 Selection.Find.Execute Replace:=wdReplaceAll
0513
0514 End Sub
0515

```

V15_Buscar_y_poner_hiperlink

```

0516 Sub V15_Buscar_y_poner_hiperlink(ByVal p_marcador As String)
0517
0518 '-----
0519 ' seleccionar marcados por call
0520 '-----
0521 Selection.Find.ClearFormatting
0522 Selection.Find.Replacement.ClearFormatting
0523 With Selection.Find
0524     .Text = "Call " & p_marcador
0525     .Replacement.Text = "Call @" & p_marcador & "@"
0526     .Forward = True
0527     .Wrap = wdFindContinue
0528     .Format = False
0529     .MatchCase = False
0530     .MatchWholeWord = False
0531     .MatchWildcards = False
0532     .MatchSoundsLike = False
0533     .MatchAllWordForms = False
0534 End With
0535 Selection.Find.Execute Replace:=wdReplaceAll
0536 Selection.Find.Execute
0537
0538 '-----
0539 ' seleccionar enlaces en el arbol
0540 '-----
0541 Selection.Find.ClearFormatting
0542 Selection.Find.Replacement.ClearFormatting
0543 With Selection.Find
0544     .Text = "+-> " & p_marcador
0545     .Replacement.Text = "+-> @" & p_marcador & "@"
0546     .Forward = True
0547     .Wrap = wdFindContinue
0548     .Format = False
0549     .MatchCase = False
0550     .MatchWholeWord = False
0551     .MatchWildcards = False
0552     .MatchSoundsLike = False
0553     .MatchAllWordForms = False
0554 End With
0555 Selection.Find.Execute Replace:=wdReplaceAll
0556 Selection.Find.Execute
0557
0558 '-----
0559 ' poner hiperlink a los seleccionados
0560 '-----

```

```

0561 Dim w_cadena_buscar As String
0562 w_cadena_buscar = "@" & p_marcador & "@"
0563
0564 Dim w_cadena_replace As String
0565 w_cadena_replace = "#" & p_marcador & "#"
0566
0567 Dim w_buscar As Boolean
0568 w_buscar = True
0569 Do While w_buscar = True
0570     Dim myrange As Object
0571     Set myrange = ActiveDocument.Content
0572     myrange.Find.Execute FindText:=w_cadena_buscar, Forward:=True
0573     If myrange.Find.Found = False Then
0574         w_buscar = False
0575     Else
0576         Selection.Find.ClearFormatting
0577         With Selection.Find
0578             .Text = w_cadena_buscar
0579             .Replacement.Text = w_cadena_replace
0580             .Forward = True
0581             .Wrap = wdFindContinue
0582             .Format = False
0583             .MatchCase = False
0584             .MatchWholeWord = False
0585             .MatchWildcards = False
0586             .MatchSoundsLike = False
0587             .MatchAllWordForms = False
0588         End With
0589         Selection.Find.Execute
0590         ActiveDocument.Hyperlinks.Add Anchor:=Selection.Range, Address:="", _
0591             SubAddress:=p_marcador, ScreenTip:="", TextToDisplay:=w_cadena_replace
0592     End If
0593 Loop
0594
0595 '-----
0596 ' guitar almohadillas
0597 '-----
0598 Selection.Find.ClearFormatting
0599 Selection.Find.Replacement.ClearFormatting
0600 With Selection.Find
0601     .Text = w_cadena_replace
0602     .Replacement.Text = p_marcador
0603     .Forward = True
0604     .Wrap = wdFindContinue
0605     .Format = False
0606     .MatchCase = False
0607     .MatchWholeWord = False
0608     .MatchWildcards = False
0609     .MatchSoundsLike = False
0610     .MatchAllWordForms = False
0611 End With
0612 Selection.Find.Execute Replace:=wdReplaceAll
0613 Selection.Find.Execute
0614
0615 End Sub
0616
0617

```

V20_dibujar_arbol

```

0660 | | | | +-----+> V40\_Pasar\_num\_a\_cadena ( 722 )
0675 | | | | +-----+> V20\_dibujar\_arbol ( 618 )

```

```

0618 Sub V20\_dibujar\_arbol(ByVal p_raiz As String)
0619
0620     Dim x As Integer

```

```

0621     For x = 1 To g_ind_arbol
0622         If Trim(p_raiz) = Trim(t_arbol(x, 1)) Then
0623             Debug.Print t_arbol(x, 1), t_arbol(x, 2), t_arbol(x, 3), t_arbol(x, 4), t_arbol(x,
0624             5)
0625             Dim w_linea As String
0626             w_linea = Space(70)
0627             Dim y As Integer
0628
0629             '-----
0630             'localizar linea de comienzo rutina llamada
0631             '-----
0632             Dim w_ini_sub As String
0633             w_ini_sub = 0
0634             For y = 1 To g_ind_sub
0635                 If Trim(t_sub(y, 1)) = Trim(t_arbol(x, 3)) Then
0636                     w_ini_sub = t_sub(y, 2)
0637                     Exit For
0638                 End If
0639             Next
0640
0641             '-----
0642             'primera linea
0643             '-----
0644             Dim w_lin_aux As String
0645             w_lin_aux = Space(70)
0646             For y = 1 To t_arbol(x, 2) - 1
0647                 Mid(w_lin_aux, y * 5, 1) = "|"
0648             Next y
0649
0650             w_linea = Space(14) & w_lin_aux
0651
0652             Selection.Font.Size = 9
0653             Selection.TypeText Text:=(w_linea & vbCrLf)
0654             Debug.Print w_linea
0655
0656             '-----
0657             'colocar numero de linea de comienzo
0658             '-----
0659             Dim w_num_lin_a As String
0660             Call V40\_Pasar\_num\_a\_cadena(t_arbol(x, 4), w_num_lin_a)
0661
0662             'segunda linea
0663             w_linea = w_lin_aux
0664             Mid(w_linea, (y - 1) * 5, 5) = "+----"
0665             Mid(w_linea, y * 5) = "+-> " & t_arbol(x, 3) & " ( " & w_ini_sub & " )"
0666             w_linea = Space(7) & w_linea
0667             Mid(w_linea, 1, 4) = Mid(w_num_lin_a, 3)
0668             w_linea = Space(7) & w_linea
0669
0670             Selection.Font.Size = 9
0671             Selection.TypeText Text:=(w_linea & vbCrLf)
0672             Debug.Print w_linea
0673
0674             If t_arbol(x, 5) <> "*" Then
0675                 Call V20\_dibujar\_arbol(t_arbol(x, 3))
0676             End If
0677         End If
0678     Next x
0679 End Sub
0680
0681
0682

```

V22_escribir_indice

```

0683 Sub V22\_escribir\_indice(ByVal p_fichero As String)

```

```

0684
0685 Selection.EndKey Unit:=wdStory
0686 Selection.InsertBreak Type:=wdPageBreak
0687 Selection.TypeParagraph
0688 Selection.MoveUp Unit:=wdLine, Count:=1
0689 Selection.TypeText Text:="Rutinas incluidas en :" & p_fichero
0690 Selection.Style = ActiveDocument.Styles("Título 1")
0691 Selection.TypeParagraph
0692
0693 Selection.TypeText Text:=vbCrLf
0694 Selection.Style = ActiveDocument.Styles("normal")
0695 Selection.TypeText Text:=vbCrLf
0696
0697 Dim x As Integer
0698
0699 For x = 1 To g_ind_sub
0700     Dim w_linea As String
0701     w_linea = "@" & t_sub(x, 1) & "@ " & String(70, ".")
0702     Dim w_num_lin_a As String
0703     Select Case True
0704         Case t_sub(x, 2) < 10
0705             w_num_lin_a = Space(3) & t_sub(x, 2)
0706         Case t_sub(x, 2) < 100
0707             w_num_lin_a = Space(2) & t_sub(x, 2)
0708         Case t_sub(x, 2) < 1000
0709             w_num_lin_a = Space(1) & t_sub(x, 2)
0710         Case t_sub(x, 2) < 10000
0711             w_num_lin_a = t_sub(x, 2)
0712     End Select
0713
0714     w_linea = Mid(w_linea, 1, 70) & w_num_lin_a
0715
0716     Selection.Font.Size = 9
0717     Selection.TypeText Text:=(w_linea & vbCrLf)
0718 Next x
0719
0720 End Sub
0721

```

V40_Pasar_num_a_cadena

```

0722 Sub V40_Pasar_num_a_cadena(ByVal p_linea As Integer, _
0723     ByRef p_linea_a As String)
0724
0725     p_linea_a = String(6, "0")
0726
0727     If p_linea < 10 Then
0728         Mid(p_linea_a, 6, 1) = p_linea
0729     Else
0730         If p_linea < 100 Then
0731             Mid(p_linea_a, 5, 2) = p_linea
0732         Else
0733             If p_linea < 1000 Then
0734                 Mid(p_linea_a, 4, 3) = p_linea
0735             Else
0736                 If p_linea < 10000 Then
0737                     Mid(p_linea_a, 3, 4) = p_linea
0738                 Else
0739                     If p_linea < 100000 Then
0740                         Mid(p_linea_a, 2, 5) = p_linea
0741                     Else
0742                         If p_linea < 1000000 Then
0743                             Mid(p_linea_a, 1, 6) = p_linea
0744                         End If
0745                     End If
0746                 End If
0747             End If
0748         End If
0749     End If
0750 End Sub

```

```
0748         End If
0749     End If
0750
0751 End Sub
0752
0753
0754
```

V48_Ordenar_Tabla_sub

```
0755 Sub V48_Ordenar_Tabla_sub()
0756
0757     Dim x As Integer
0758     Dim y As Integer
0759
0760     Dim w_base_1 As String
0761     Dim w_base_2 As String
0762
0763     Dim w_col_1 As String
0764     Dim w_col_2 As String
0765     Dim w_col_3 As String
0766     Dim w_col_4 As String
0767
0768     Dim w_salir As Boolean
0769
0770     For x = 1 To (g_ind_sub - 1)
0771         w_salir = False
0772         Do
0773             w_base_1 = t_sub(x, 1)
0774             For y = x + 1 To g_ind_sub
0775                 If w_base_1 > t_sub(y, 1) Then
0776                     'memorizar lo menor
0777                     w_base_2 = t_sub(x, 2)
0778                     w_col_1 = t_sub(x, 1)
0779                     w_col_2 = t_sub(x, 2)
0780                     w_col_3 = t_sub(x, 3)
0781                     w_col_4 = t_sub(x, 4)
0782                     'traspasar lo menor
0783                     t_sub(x, 1) = t_sub(y, 1)
0784                     t_sub(x, 2) = t_sub(y, 2)
0785                     t_sub(x, 3) = t_sub(y, 3)
0786                     t_sub(x, 4) = t_sub(y, 4)
0787                     'cargar lo mayor
0788                     t_sub(y, 1) = w_col_1
0789                     t_sub(y, 2) = w_col_2
0790                     t_sub(y, 3) = w_col_3
0791                     t_sub(y, 4) = w_col_4
0792                     Exit For
0793                 End If
0794             Next y
0795             If w_base_1 = t_sub(x, 1) Then
0796                 Exit Do
0797             End If
0798         Loop
0799     Next x
0800     '-----
0801     'listar resultado
0802     '-----
0803     For x = 1 To g_ind_sub
0804         'debug.print    x, Dir(t_sub(x, 4)), t_sub(x, 1)
0805         'debug.print    t_sub(x, 1), t_sub(x, 4)
0806     Next x
0807     '-----
0808     'cargar t_aux con buenos
0809     '-----
0810     Dim t_aux(100, 4) As String
0811     Dim w_ind_aux As Integer
```

```

0812     For x = 1 To g_ind_sub
0813         If Dir(t_sub(x, 4)) = t_sub(x, 1) Then
0814             w_ind_aux = w_ind_aux + 1
0815             For y = 1 To 4
0816                 t_aux(w_ind_aux, y) = t_sub(x, y)
0817             Next y
0818         End If
0819     Next
0820     '-----
0821     'listar resultado
0822     '-----
0823     For x = 1 To w_ind_aux
0824         'debug.print t_aux(x, 1), t_aux(x, 4)
0825     Next x
0826     '-----
0827     'machacar t_sub con buenos
0828     '-----
0829     g_ind_sub = w_ind_aux
0830     For x = 1 To g_ind_sub
0831         For y = 1 To 4
0832             t_sub(x, y) = t_aux(x, y)
0833         Next y
0834     Next
0835     '-----
0836     'listar resultado
0837     '-----
0838     For x = 1 To g_ind_sub
0839         t_sub(x, 2) = 0
0840         'debug.print x, t_sub(x, 1), t_sub(x, 4)
0841     Next x
0842
0843
0844 End Sub
0845
0846

```

Rutinas incluidas en :D:\VBA\JMP_VBA.bas

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