```
//*******************************************
//
//   NAME:          WPCHLIBR.WPM
//
//   PURPOSE:     Support Functions and Procedures
//                      for WordPerfect 6.0 Coach macros
//
//   AUTHOR:Paul Laing, Aaron Grant, Julie Westergren, Brent Standing  WordPerfect Corp.
//
//*******************************************

//   Revision History:
//
```

// June 22, 1993 BrentS - Modified LstBxControl for a PostIt error. This change will not affect the way your macro will run.

// June 22, 1993 BrentS - Added a parameter to OpenDocument() that allows the parent macro to pass in what message wanted. Assign tbox = -1 in an array the default message will appear.

// June 22, 1993 BrentS - Added a "Coach" as a title on CommentsBox Proc.

// June 22, 1993 BrentS - Added a #3 option to info[10] in lstbxcontrol. It currently has #2 as Down the UP, #3 has Up then Down.

// June 22, 1993 Aaron - Increase the size of the continue button for MessageBox when buttons = 8.

// June 22, 1993 Juliewst - Made a text change to BlockEdit routine as per Lori.

// June 10, 1993 Juliewst - Added a statement to QuitCoach() to allow for cancelling in Tables and substructures.

// June 10, 1993 Juliewst - Added 3 graphics items to MenuPop as valid popout items.

// June 10, 1993 BrentS - Added two buttons to Messagebox (7) for (Continue) and (8) for Continue Quit.

// June 7, 1993   Aaron - Modified the Open Doc Proc to accomidate CHADs formatting changes.

// June 7, 1993   BrentS - Modified the Saving Doc Proc to accomidate CHADs changes.

// June 7, 1993   Juliewst - Removed a blank line from the "Nothing is blocked" message in NoBlock(), and from "Block is on, but no text has been selected."

// June 4, 1993   Juliewst - Added to Fakeit a bug fix for the left corner cursor positioning.

// June 4, 1993   Juliewst - Changed ScreenSetup and RestoreScreen to check for Menu Bar.

// June 23, 1993 Aaron - Changed PostIt() so the hotspot posititons are correct when using -99 as a horz. position (centered).

// May 28, 1993 Juliewst - Changed For to ForNext, Case to Switch, and EndCase to EndSwitch because of a program change.

// May 25, 1993 Aaron - Added brents bug fix in lstbxcontrol that will do an up down if info[10] is set to the number 2.

// May 24, 1993 Juliewst - Added checking for Table Edit mode to CancelCoach().

// May 20, 1993 Juliewst - Fixed wrong menu values in the GraphicsMenu(), LayoutMenu() and ToolsMenu() procedures.

// May 20, 1993 PAULL - Added messages for non supported screen modes in the DlgMessage() function.

// May 20, 1993 PAULL - Fixed the text hangovers on the Coach comment prompts in the BlockEdit() function.

// May 19, 1993 BRENTS - Modified ColorScheme().

// May 19, 1993 PAULL - Added "StyCancel!" to the "Quit..Esc" default button in the MessageBox() function.

// May 19, 1993 BRENTS - Modified save routine.

// May 14, 1993 Juliewst - Changed Quit to RETURN in QuitCoach().

// May 14, 1993 Paull - Added Global Variables to ScreenSetup(). Deleted Reveal Codes and Scroll Bar portions of ScreenSetup() and RestoreStates().

// May 14, 1993 PAULL - Changed a Coach comment in BlockEdit().

// May 14, 1993 Juliewst - Added the RestoreStates() command to QuitCoach().

// May 14, 1993 Juliewst - Added procs ScreenSetup() and RestoreStates.

// May 14, 1993 AARON - Error added to ColorScheme(). If user is in a substructure (header/footer screen) and a coach is started, the error is generated and the coach Quits.

// May 14, 1993 AARON - Changed the Steps param in PostIt() to be and adjuster in graphics mode. If the document screen and the coach dlg overlap, change Steps to be a one.

// May 13, 1993 PAULL - Changed the message in NoBlock() to read "Nothing is blocked" instead of "Nothing is selected".

// May 13, 1993 BRENTS - Updated Save functions.

// May 13, 1993 PAULL - Fixed the red Quit button in PostIt() style 1.

// May 13, 1993 PAULL - Changed cancel to "Quit...Esc" in MessageBox() style 4.

//   May 13, 1993   BRENTS - Updated Save functions.

//   May 12, 1993   PAULL - Bolded all button accelerators where needed in the FakeIt() function.

//   May 12, 1993   PAULL - Added a return value of 1 to BlockEdit() when an F7 key is pressed.

//   May 12, 1993   PAULL - Added a Buttons parameter to BlockEdit() to allow the button styles used in FakeIt() to be passed.

//   May 12, 1993   PAULL - Blocked Ctrl+S in the BlockEdit() and DoEdit() functions.

//   May 12, 1993   PAULL - Added code to FakeIt() to enable the accelirator keys for "Show Me...Ctrl+S" and "Hint...F1".

//   May 12, 1993   PAULL - Changed all blank titles to "Coach".

//   May 12, 1993   PAULL - Change the CancelCoach() proc. to read "Quit Coach?" with "Coach" as the title.

//   May 11, 1993   PAULL - Removed the StepsBox() function.

//   May 11, 1993   PAULL - Added PostIt() code to the dialog control functions that will redisplay the Coach dialog when HotPnt is equal to 0.

//   May 11, 1993   PAULL - Added a color to ColorScheme().

//   May 11, 1993   PAULL - Added back an option for a "Quit...Esc" button in MessageBox() as buttons style 6.

//   May 11, 1993   PAULL - Backed out changes to MessageBox() made by JULIEWST that changed the minimum width, OK and Cancel buttons.

//   May 11, 1993   PAULL - Added a button style 6 to the FakeIt() function that allows just a Quit..Esc button and changed the hotspots accordingly in DoEdit() and BlockEdit().

//   May 11, 1993   PAULL - Added a second test to the Filter() function to test for keys without testing the key value -32. Filter will test in this fashion when the third parameter is equal to a 2.

//   May 11, 1993   JULIEWST - Changed Cancel Buttons to Quit buttons in StepsBox().

//   May 11, 1993   JULIEWST - Changed Minimum Width of MessageBox() to 34.

//   May 11, 1993   JULIEWST - Changed CancelCoach() to say "Cancel Coach?" and centered it in dlg box.

//   May 11, 1993   JULIEWST - Changed OK and Cancel Buttons in MessageBox to Continue and Quit...Esc.

//   May 11, 1993   JULIEWST - Added a Button 6 to MessageBox()   Exit Coach

//   May 11, 1993   JULIEWST - Removed all Table Editing Functions and Procedures and placed them in a separate Library, WPCHLBTB.WPM.

//   May 10, 1993 JULIEWST - Changed EditTable to run correct macro to create a table. WPCHTB01.WPM

//   May 10, 1993 PAULL - Added re-paint code to the LstBxControl() function when AclPnt() is equal to a 1.

//   May 10, 1993 Aaron - Changed Postit to be able to stack vertically show me and quit buttons. Seting buttons = 6 on postit() will accomplish this.

//   May 10, 1993 JULIEWST - Changed LOOK to CHAR in TableEditControl(). Changed text and button positions in EditTable().

//   May 8, 1993   PAULL - Changed all dialog control functions to Wait five tenths of a second only when the element for the active hotspot has been set to a 2 that indecates a double click is possible for that hot spot.

//   May 8, 1993   PAULL - Changed the ShowMenu() proc to use a Speed command instead of Wait statments.

//   May 8, 1993   PAULL - Added a new procedure called AssignedSubs() that is now used in the MenuControl() function to insure the proper prompt message to display while using the pulldown menues.

//   May 7, 1993   PAULL - Added ShowCode(RestoreScreen!) to the LstBxControl() function to repaint a dialog if dismissed.

//   May 7, 1993   PAULL - Changed the Title "Tip" in the Hint() function to "Quick Tip".

//   May 7, 1993   PAULL - Added xpos and ypos to the Hint() function that allows centering when given a value of -99.

//   May 6, 1993   PAULL - Changed MessageBox() to not add lines when Buttons equal 0.

//   May 6, 1993   PAULL - Removed the blank lines at the top of Welcome(), Hint() and Overview().

//   May 6, 1993   PAULL - Updated the functions and procedures that use MenuControl with the updated changes.

//   May 6, 1993   PAULL - Added a wait for ?MouseLeft for all hot spots in the HotSpot() function.

//   May 6, 1993   PAULL - Changed MenuControl() to allow for individual execute arrays for &allow, &accel and &subacl. Added two more help messages that change depending if focus is on a non valid menu, a valid menu or a valid popout menu.

//   May 5, 1993   BRENTS - Added a Hint message function that displays "Show Me" and "Return to Coach" buttons.

//   May 5, 1993   BRENTS - Added ColorScheme Procedure for Text and Graphics mode to create the "[Coach]" palate.

//   May 5, 1993   PAULL - Added "Show Me...Ctrl+S" buttons to the PostIt() proc the code for hotspots in all the dialog control functions.

//   May 4, 1993   PAULL - Added "Quit..Esc" buttons to the PostIt() proc and adjusted the hotspots for these button in both DoEdit() and BlockEdit() and added the capability to use the quit button in all of the dialog control functions.

// May 3, 1993   PAULL - Changed the MessageBox() proc to not include a blank space at the top of each message.

// May 3, 1993   PAULL - Added a global varaible to ShowMenu() and MenuBarControl() to set a flag to test for pre execution of a menu command upon entering the MenuControl() proc.

// May 3, 1993   PAULL - Added save screen and restore screen in both MenuBarControl() and MenuControl() to eliminate the need for an "OK" button on the help messages.

// May 3, 1993   BRENTS - Modified SavingDoc Procedure to conform with standards.

// May 1, 1993   PAULL - Added a procedure called PleaseWait() to show a "Please Wait..." message.

// May 1, 1993   PAULL - Changed a message the DocOpen() proc to read as an "OK" message rather than a "Yes" or "No" message when a file was not opened.

// May 1, 1993   PAULL - Enhanced BlockEdit() to handle the positioning for "CoachComments" when there are no steps included in a postit message. The Help parameter will now indicate if steps are included in the help promts when it's value is set to 2.

// April 30, 1993 PAULL - Added a line of text to the SavingDoc() proc that says "To save your document:".

// April 29, 1993 PAULL - Added a variable called "FakeBtns" to the FakeIt() proc that will indicate to both the DoEdit() and BlockEdit procedures the hotspot regions for the buttons found on the FakIt() dialog.

// April 29, 1993 PAULL - Removed the HotSpot paramater on the HotSpot() proc. The hotspots for the buttons on the FakeIt() dialog will now be determined whithin FakeIt() by adding a global variable named "FakeBtns" at the top of each Coach macro.

// April 29, 1993 PAULL - Removed the words "Coach Comments" from the CommentsBox() proc.

// April 29, 1993 PAULL - Added a "Quit...Esc" to the FakeIt() dialog.

// April 29, 1993 PAULL - Added minimum width of 30 to both the Welcome() and Overview() functions dialogs.

// April 29, 1993 JULIEWST - Adjusted some of the menu displays in EditTable().

// April 29, 1993 JULIEWST - Removed Overview Button from the Welcome() Function Dlg.

// April 29, 1993 JULIEWST - Change the Cancel Button to Quit on Welcome() Function Dlg.

// April 29, 1993 BRENTS - Changed Messagebox, if you choose 3 for buttons and the width of the message is too small a minimum of 25 is assigned to VAR w.

// April 29, 1993 BRENTS - Changed "Coach Help 1" and "Coach Help 2" to just "Coach".

// April 28, 1993 PAULL - Changed the width of the "Hint...F1" button in the PostIt proc.

//   April 28, 1993 PAULL - Changed w+3 to w+4 in MessageBox for all button types execpt button type one which is the default OK button.

//   April 28, 1993 BRENTS - Added code to MenuBarControl() and MenuControl to cancel the menus when a function key is pressed.

//   April 28, 1993 JULIEWST - Added Procedures EditTable() and TblColEdit().

//   April 27, 1993 BRENTS - Fixed aclpnt error in SavingDoc()

//   April 27, 1993 PAULL - Added two Functions for Overerview() and Welcome().

//   April 27, 1993 JULIEWST - Added Procedures for SetBoxSize(), ExitTableEdit(), and TableEditControl().

//   April 27, 1993 JULIEWST - Added Function TableBlockEdit().

//   April 26, 1993 JULIEWST - Changed all Control ID's to #-512 because of changes made to program 4-22-93.

//   April 26, 1993 JULIEWST - Changed w+4 to w+3 in MessageBox proc.

```
//*******************************************
//   PROCEDURES
//*******************************************
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```
//**********************************************
//
//    PROCEDURE: FakeIt
//
//**********************************************
PROCEDURE FakeIt(Title;&tbox;Buttons;Frame;Steps)
        Global(xposS1;xposS2;xposH1;xposH2;xposQ1;xposQ2;yposS1;FakeBtns)
        Global(AreaHgt)
        FakeBtns=0
        Look(Key)
        While(Key <> 0)
            Look(Key)
        EndWhile

        Btns=0
        If(Buttons)
            Btns=2
        Endif
        If(Frame)
            If(Not Exists(ColorSet))
                CheckColorSet()
            Endif
            If(ColorSet = 1)
                Adj=1
                Steps=0
            Else
                Adj=-2
            Endif

            DisplayRewrite
            WindowFrame

            WindowSize(0;16;640;384+(ScrnMode * 16)-((tbox[0]+Adj+Steps+Btns) * 16))
            If(ColorSet = 1)
                AreaHgt=(384+(ScrnMode * 16)-((tbox[0]+Adj+Steps+Btns) * 16)) / 16
            Else
                AreaHgt=((384+(ScrnMode * 16)-((tbox[0]+Adj+Steps+Btns) * 16)) / 16) - 4
            Endif
        Endif
        Steps=0
        DlgCreate(Result;Title;
            DlgNoOk!+DlgNoCancel!+DlgInactive!+DlgNoClear!;
            0;25+ScrnMode-(tbox[0]);80;tbox[0]+1+Steps+Btns)
//      If(Steps)
//          DlgControl(CtrlLabel!;;
//          "[Bold On]Step "+StepNum+" - "+StepText+"[Bold Off]";;2;1;;1)
```

```
//          ForNext(x;1;tbox[0])
//             DlgControl(CtrlLabel!;;tbox[x];;2;x+2;;1)
//          Endfor
//      Else
               ForNext(x;1;tbox[0])
                   DlgControl(CtrlLabel!;;tbox[x];;2;x;;1)
               Endfor
//      Endif
          If(Buttons = 1 or Buttons = 2)
              FakeBtns=Buttons
              DlgControl(CtrlPushbutton!;;" Continue ";;51;tbox[0]+Steps+Btns-1)
              If(Buttons = 2)
                  DlgControl(CtrlPushbutton!;;" Continue ";;51;tbox[0]+Steps+Btns-1)
              Endif
              DlgControl(CtrlPushbutton!;;"Quit...[Bold On]Esc[Bold Off]";;65;tbox[0]+Steps+Btns-1)

          Else
              If(Buttons >=3 and Buttons <= 8)
                  FakeBtns=Buttons

                  If(Buttons >=3 and Buttons <= 5)
                      DlgControl(CtrlPushbutton!;;
                      "Continue...[Bold On]F7[Bold Off]";;45;tbox[0]+Steps+Btns-1)
                      DlgControl(CtrlPushbutton!;;
                      "Continue...[Bold On]F7[Bold Off]";;45;tbox[0]+Steps+Btns-1)
                      DlgControl(CtrlPushbutton!;;
                      " Quit...[Bold On]Esc[Bold Off] ";;62;tbox[0]+Steps+Btns-1)
                  Endif

                  Switch(Buttons)

                  CaseOf 4:
                      DlgControl(CtrlPushbutton!;;
                      "Show Me...[Bold On]Ctrl+S[Bold Off]";;25;tbox[0]+Steps+Btns-1)

                  CaseOf 5:
                      DlgControl(CtrlPushbutton!;;
                      " Hint...[Bold On]F1[Bold Off]  ";;28;tbox[0]+Steps+Btns-1)

                  CaseOf 6:
                      DlgControl(CtrlPushbutton!;;
                      " Quit...[Bold On]Esc[Bold Off] ";;62;tbox[0]+Steps+Btns-1)
                      DlgControl(CtrlPushbutton!;;
                      " Quit...[Bold On]Esc[Bold Off] ";;62;tbox[0]+Steps+Btns-1)
                      DlgControl(CtrlPushbutton!;;
                      "Show Me...[Bold On]Ctrl+S[Bold Off]";;42;tbox[0]+Steps+Btns-1)
```

```
            CaseOf 7:
                DlgControl(CtrlPushbutton!;;
                " Quit...[Bold On]Esc[Bold Off] ";;62;tbox[0]+Steps+Btns-1)
                DlgControl(CtrlPushbutton!;;
                " Quit...[Bold On]Esc[Bold Off] ";;62;tbox[0]+Steps+Btns-1)
                DlgControl(CtrlPushbutton!;;
                " Hint...[Bold On]F1[Bold Off]  ";;45;tbox[0]+Steps+Btns-1)

            CaseOf 8:
                DlgControl(CtrlPushbutton!;;
                " Quit...[Bold On]Esc[Bold Off] ";;62;tbox[0]+Steps+Btns-1)
                DlgControl(CtrlPushbutton!;;
                " Quit...[Bold On]Esc[Bold Off] ";;62;tbox[0]+Steps+Btns-1)

            ENDSwitch
         Endif
      Endif
   DlgEnd
//****************************************
//   Cursor Position Bug Fix
//****************************************
PosCharNext
PosCharPrevious
//****************************************
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: CommentsBox
//
//*********************************************
PROCEDURE CommentsBox(&cmnt;xpos;ypos;width;hight;Style)
        If(Style = 1)
            DlgCreate(Result;"Coach";
            DlgNoOk!+DlgNoCancel!+DlgInactive!+DlgNoClear!;
            ;;width;hight)
        Else
            DlgCreate(Result;"Coach";
            DlgNoOk!+DlgNoCancel!+DlgInactive!+DlgNoClear!;
            xpos;ypos+ScrnMode;width;hight)
        Endif
        ForNext(x;1;cmnt[0])
            DlgControl(CtrlLabel!;;cmnt[x];;2;x;;)
        Endfor
        DlgEnd
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: CancelMenus
//
//*********************************************
PROCEDURE CancelMenus()
        While(?Dialog = 2)
            CancelKey
        EndWhile
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: CancelDialogs
//
//*********************************************
PROCEDURE CancelDialogs()
        While(?Dialog <> -1)
            CancelKey
        EndWhile
ENDPROC
```

```
//*************************************************
//
//   PROCEDURE: ScreenSetup
//
//*************************************************
PROCEDURE ScreenSetup()
Global(Bbar;Ribn;Olb;PDM)

IF (?ButtonBar)
        BBar=1
        ButtonBar(Off!)
ELSE
        BBar=0
ENDIF

IF (?OutlineBar)
        OLB=1
        OutlineBarSetup(off!)
ELSE
        OLB=0
ENDIF

IF(?Ribbon)
        Ribn=1
        RibbonSetup(off!)
ELSE
        Ribn=0
ENDIF

IF(?PullDownMenus)
            PDM=1
ELSE
            PDM=0
            MenuBarRemainsVisible
            SetupSave
Endif

DisplayOnStatusLine(Nothing!)

ENDPROC
```

```
//**************************************************
//
//   PROCEDURE: RestoreStates
//
//**************************************************
PROCEDURE RestoreStates()

        IF(BBar=1)   ButtonBar(On!)    ENDIF
        IF(OLB=1)    OutlineBarSetup(on!) ENDIF
        IF(Ribn=1)   RibbonSetup(on!) ENDIF
        IF(PDM=0)   MenuBarRemainsVisible SetupSave ENDIF
        DisplayOnStatusLine(Filename!)
        DisplayRewrite
ENDPROC
```

```
//*********************************************
//
//    FUNCTION: BlockEdit
//
//*********************************************
FUNCTION BlockEdit(Title;EnableBlk;EnableMouse;&DefMsg;Buttons;Helps)
        Result=0 Init=0
        Look(Key)
        While(Key <> 0)
            Look(Key)
        EndWhile

        Switch(FakeBtns)

        CaseOf 3:
            Lft1a=45 Lft1b=59
            Lft2a=62 Lft2b=76
            Lft3a=0 Lft3b=0

        CaseOf 4:
            Lft1a=45 Lft1b=59
            Lft2a=62 Lft2b=76
            Lft3a=25 Lft3b=42

        CaseOf 5:
            Lft1a=45 Lft1b=59
            Lft2a=62 Lft2b=76
            Lft3a=28 Lft3b=42

        CaseOf 6:
            Lft1a=0 Lft1b=0
            Lft2a=62 Lft2b=76
            Lft3a=42 Lft3b=59

        CaseOf 7:
            Lft1a=0 Lft1b=0
            Lft2a=62 Lft2b=76
            Lft3a=45 Lft3b=59

        CaseOf 8:
            Lft1a=0 Lft1b=0
            Lft2a=62 Lft2b=76
            Lft3a=0 Lft3b=0

        DEFAULT:
            Lft1a=51 Lft1b=62
```

```
        Lft2a=65 Lft2b=76
        Lft3a=0 Lft3b=0

ENDSwitch

Steps=0
If(Helps = 2)
     Steps=1
Endif

NotFound(On!)
OnNotFound Call(NotFoundCoach)
Cancel(On!)
OnCancel Call(CancelCoach)

DlgInput(On!)

Option=0 Result=0
While(1)
    Char(Key)
    If((?MouseLeft)
    and (?MouseLastX >= 0 and ?MouseLastX <= 62)
    and (?MouseLastY >= 0 and ?MouseLastY <= 0))
        FakeIt(Title;&DefMsg;Buttons;0;Steps)
        Type(ntoc(Key))
        Option=?DialogControl
        PosLineDown

        BlkFrmMenu(Option)
        NotFound(On!)
        OnNotFound Call(NotFoundCoach)

        Cancel(On!)
        OnCancel Call(CancelCoach)
        While(?Dialog <> -1)
            Char(Key)
            Type(ntoc(Key))
            Key=-1
        EndWhile
        FakeIt(Title;&DefMsg;Buttons;0;Steps)
        If(?BlockActive and ?Dialog = -1)
            cmnt={    "Use the arrow keys to position to the end";
                    "of the text, then choose [Bold On]Continue[Bold Off].";
                }
            If(Helps = 2)
                Vpos=(24 - (DefMsg[0]+3))
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            Else
                Vpos=(24 - (DefMsg[0]+2))
            Endif
            CommentsBox(&cmnt;1;Vpos;45;4;0)
            Init=2
        Endif
    Endif
Endif
If(Key <> -768)
    If(Key <> -8154 and Key <> -8146 and Key <> -8142 and Key <> -8139 and
    Key <> -8124 and Key <> -8133 and Key <> -8050 and Key <> -8182 and Key <> -8160)
        // F7, Shft+F3, Shft+F7, Shft+F10, Ctrl+F1, Alt+F4, Ctrl+S, Enter, Esc
        Type(ntoc(Key))
    Endif
Else
    If((?MouseLastY < AreaHgt and (?MouseLastY > 1))
    and (?MouseLastX > 0 and ?MouseLastX < 79)
    and (EnableMouse) and (?MouseRightClick = 0))

        Type(ntoc(Key))
        If(EnableBlk)
            If(?MouseLeft and ?BlockActive)
                If(Init=0)
                    If(Helps)
                        cmnt={    "Keep holding the mouse button as you drag the block.";
                            }
                        If(Helps = 2)
                            Vpos=(24 - (DefMsg[0]+3))
                        Else
                            Vpos=(24 - (DefMsg[0]+2))
                        Endif
                        CommentsBox(&cmnt;5;Vpos;55;3;0)
                    Endif
                    Init=1
                Endif
            Endif
        Endif
        If(Init = 1 and ?MouseLeft = 0 and
        ?BlockActive)
            If(Helps)
                FakeIt(Title;&DefMsg;Buttons;0;Steps)
                cmnt={    "Good. Choose [Bold On]Continue[Bold Off] or try again.";
                    }
                If(Helps = 2)
                    Vpos=(24 - (DefMsg[0]+3))
                Else
                    Vpos=(24 - (DefMsg[0]+2))
                Endif
```

```
                    CommentsBox(&cmnt;3;Vpos;42;3;0)
                Endif
                Init=2
            Endif
            If(Init = 2 and ?BlockActive = 0)
                FakeIt(Title;&DefMsg;Buttons;0;Steps)
                Init=0
            Endif
        Else
            If(?BlockActive)
                BlockOff
            Endif
        Endif
    Else
        If((?MouseLastX >= Lft1a) and (?MouseLastX <= Lft1b) and
        (?MouseLastY = (23+ScrnMode)))
            If(NoSelect() = 1)
                Option=1
                Break
            Endif
        Else
            If((?MouseLastX >= Lft2a) and (?MouseLastX <= Lft2b) and
            (?MouseLastY = (23+ScrnMode)))
                Call(CancelCoach)
            Else
                If((?MouseLastX >= Lft3a) and (?MouseLastX <= Lft3b) and
                (?MouseLastY = (23+ScrnMode)))
                    Option=3
                    Break
                Else
                    While(?MouseLeft)
                    EndWhile
                    Key=0
                Endif
            Endif
        Endif
    Endif
Endif
If(EnableBlk and Key = -8133)        // Block
    If(?BlockActive)
        BlockOff
        FakeIt(Title;&DefMsg;Buttons;0;Steps)
    Else
        BlockOn(CharMode!)
        If(Helps)
            cmnt={    "Use the arrow keys to position to the end";
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                        "of the text, then choose [Bold On]Continue[Bold Off].";
                    }
                If(Helps = 2)
                    Vpos=(24 - (DefMsg[0]+3))
                Else
                    Vpos=(24 - (DefMsg[0]+2))
                Endif
                CommentsBox(&cmnt;1;Vpos;45;4;0)
            Endif
            Init=2
        Endif
    Endif
    If(Key = -8154 and ?Dialog = -1)          // F7 Key
        If(NoSelect() = 1)
            Option=1
            Break
        Endif
    Endif
    If(FakeBtns = 4 or FakeBtns = 6)
        If(Key = -8050 and ?Dialog = -1)     // Ctrl+S
            Option=3
            Break
        Endif
    Endif
    If(FakeBtns = 5 or FakeBtns = 7)
        If(Key = -8158 and ?Dialog = -1)     // F1 Key
            Option=3
            Break
        Endif
    Endif
    If(Key = -8182 and ?Dialog > 2)
        HardReturn
    Endif
    While(?Dialog <> -1)
        Char(Key)
        Type(ntoc(Key))
        Key=-1
    EndWhile
EndWhile
NotFound(Off!)
Cancel(Off!)
Return(Option)
ENDFUNC
```

```
//*********************************************
//
//    PROCEDURE: BlkFrmMenu
//
//*********************************************
PROCEDURE BlkFrmMenu(Option)
        NotFound(On!)
        OnNotFound Call(NotFoundCoach)

        Cancel(On!)
        OnCancel Call(CancelCoach)

        hbox1={   "";
                   "Block and Search are available";
                   "on the Edit menu.";
                   "";
              }
        hbox2={   "";
                   "Block and Search are available";
                   "on the Edit menu.";
                   "";
              }
        hbox3={  -1;
              }

        EditMenu(&valid)
        allow={            1487;
                           1498;
              }
        exallow={           1;
                            1;
              }
        accel={            98;
                           104;
              }
        exaccel={    1;
                            1;
              }
        NoSubMenu(&subval;&subacl;&exsubacl;&subs)

        sbox={             -1;
              }
        funkey={      -8133;      // Alt+F4
                      -8159;      // F2
              }
```

```
Switch(Option)

CaseOf 1987:
    Result=MenuControl(&hbox1;&hbox2;&hbox3;&valid;&allow;&exallow;
    &accel;&exaccel;&subval;&subacl;&exsubacl;&subs;&funkey)

DEFAULT:
    MenuActive=MenuBarControl("";&hbox1;&sbox;0;0;101;&funkey)
    If(Filter(&funkey;MenuActive;2) = 0)

        Result=MenuControl(&hbox1;&hbox2;&hbox3;&valid;&allow;&exallow;
        &accel;&exaccel;&subval;&subacl;&exsubacl;&subs;&funkey)
    Endif

    ENDSwitch
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: ShowMenu
//
//*********************************************
PROCEDURE ShowMenu(Title;&sbox;xpos;ypos;Mnu;Opt;Pop;Execute)
        Global(ChkMenu)
        ChkMenu=0
        DlgInput(On!)
        CancelMenus()

        If(sbox[1]=-1)
            sbox[0]=0
        Endif

        PullDownDlg
        Speed(10)

        ForNext(x;1;Mnu)
            PosCharNext
        Endfor
        Wait(3)
        ForNext(x;1;Opt+1)
            PosLineDown
        Endfor
        If(Pop = 0)
            If(sbox[0] <> 0)
                Result=PostIt(Title;&sbox;xpos;ypos;0;0;0)
            Endif
        Endif
        If(Execute or Pop)
            Wait(3)
            HardReturn
        Endif
        If(Pop)
            If(Pop <> 1)
                ForNext(x;1;Pop-1)
                    PosLineDown
                Endfor
            Endif
            If(sbox[0] <> 0)
                Result=PostIt(Title;&sbox;xpos;ypos;0;0;0)
            Endif
            If(Execute = 2)
                Wait(3)
                HardReturn
```

```
            Endif
        Endif
        Speed(0)
        Cancel(Off!)
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: MenuBar
//
//*********************************************
PROCEDURE MenuBar(&bar)
        bar={
                309;        // File
                1475;       // Edit
                1502;       // View
                1531;       // Layout
                1592;       // Tools
                1655;       // Font
                1867;       // Graphics
                3522;       // Window
                3704;       // Help
            }
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: MenuPop
//
//*********************************************
PROCEDURE MenuPop(&pop)
        pop={
                0;
                458;
                816;
                1184;
                1484;
                1488;
                1494;
                1515;
                1519;
                1537;
                1555;
                1564;
                1574;
                1580;
                1597;          //Macro
                1601;          //Outline
                1616;          //Merge
                1549;          //Date
                1620;          //Index
                1623;          //Table of Contents
                1626;          //List
                1629;          //Cross Reference
                1633;          //Table of Authorities
                1639;          //Math
                1644;          //Spreadsheet
                1650;          //Soundclip
                1658;          //Font Size/Position
                4466;          //Graphics Boxes
                4467;          //Graphics Lines
                4468;          //Graphics borders
            }
ENDPROC
```

```
//*******************************************
//
//    PROCEDURE: FileMenu
//
//*******************************************
PROCEDURE FileMenu(&valid)
        valid={
                309;
                310;
                321;
                335;
                3812;
                420;
                436;
                437;
                458;
                816;
                1094;
                1184;
                1470;
                1471;
                1472;
                1473;
                1474;
            }
ENDPROC
```

```
//**********************************************
//
//    PROCEDURE: EditMenu
//
//**********************************************
PROCEDURE EditMenu(&valid)
        valid={
                1475;
                1476;
                1477;
                1478;
                1479;
                1480;
                1481;
                1482;
                1483;
                1484;
                1487;
                1488;
                1494;
                1498;
                1499;
                1500;
                1501;
            }
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: ViewMenu
//
//*********************************************
PROCEDURE ViewMenu(&valid)
        valid={
                1502;
                1503;
                1504;
                1505;
                1506;
                1508;
                1509;
                1510;
                1514;
                1515;
                1519;
                1529;
                1530;
                3609;
            }
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: LayoutMenu
//
//*********************************************
PROCEDURE LayoutMenu(&valid)
        valid={
                1531;
                1532;
                1533;
                1534;
                1535;
                1536;
                1537;
                1548;
                4422;
                1553;
                1554;
                1555;
                1563;
                1564;
                1573;
                1574;
                1580;
                0;
                1591;
            }
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: ToolsMenu
//
//*********************************************
PROCEDURE ToolsMenu(&valid)
        valid={
                1592;
                1594;
                1597;
                1601;
                1616;
                1619;
                1549;
                1620;
                1623;
                1626;
                1629;
                1633;
                1638;
                1639;
                1644;
                1649;
                1650;
            }
ENDPROC
```

```
//**********************************************
//
//    PROCEDURE: FontMenu
//
//**********************************************
PROCEDURE FontMenu(&valid)
        valid={
                1655;
                1656;
                1657;
                1658;
                1666;
                1667;
                1668;
                1669;
                1670;
                1671;
                1672;
                1673;
                1684;
                1685;
                1686;
            }
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: GraphicsMenu
//
//*********************************************
PROCEDURE GraphicsMenu(&valid)
        valid={
                1867;
                1868;
                4466;
                4467;
                4468;
                3463;
                3464;
            }
ENDPROC
```

```
//***********************************************
//
//    PROCEDURE: WindowMenu
//
//***********************************************
PROCEDURE WindowMenu(&valid)
        valid={
                3522;
                3568;
                3569;
                3597;
                3626;
                3656;
                3670;
                3671;
                3683;
                3703;
            }
ENDPROC
```

```
//**********************************************
//
//    PROCEDURE: HelpMenu
//
//**********************************************
PROCEDURE HelpMenu(&valid)
        valid={
                3704;
                3708;
                4198;
                4255;
                3711;
                3713;
                4256;
                4254;
            }
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: NoSubMenu
//
//*********************************************
PROCEDURE NoSubMenu(&subval;&subacl;&exsubacl;&subs)
       subval={ -1;
             }
       subacl={ -1;
             }
       exsubacl={   -1;
             }
       subs={    -1;
             }
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: AssignedSubs
//
//*********************************************
PROCEDURE AssignedSubs(&subassgn;PullDown)
        Switch(PullDown)

        CaseOf 309:            // File
            subassgn={
                459;
                648;
                281;
                1074;
                1093;
                1185;
                1186;
                1187;
                1188;
                1233;
                1258;
                }


        CaseOf 1475:           // Edit
            subassgn={
                1485;
                1486;
                1489;
                1490;
                1491;
                1492;
                1493;
                1495;
                1496;
                1497;
            }

        CaseOf 1502:           // View
            subassgn={
                1516;
                1417;
                1418;
                1520;
                1521;
                1522;
```

```
                4410;
                1525;
                1526;
                3863;
                1593;
                1528;
                1227;
            }

CaseOf 1531:          // Layout
    subassgn={
                1538;
                1539;
                264;
                265;
                1540;
                1541;
                1542;
                1543;
                1547;
                1558;
                1559;
                1559;
                1560;
                1565;
                1566;
                1567;
                1568;
                1569;
                1570;
                1571;
                1572;
            }

CaseOf 1592:          // Tools
    subassgn={
                1598;
                1599;
                1600;
                1602;
                1603;
                1604;
                1605;
                1606;
                1607;
                1608;
```

```
          1609;
          1610;
          1611;
          1612;
          1613;
          1614;
          1615;
          1617;
          1618;
          1550;
          1551;
          1552;
          1621;
          1622;
          1624;
          1625;
          1627;
          1628;
          1630;
          1631;
          1632;
          1634;
          1635;
          1637;
          1640;
          1641;
          1642;
          1643;
          1645;
          1646;
          1647;
          1648;
          1651;
          1652;
          1653;
          1654;
        }

CaseOf 1655:          // Font
    subassgn={
          1596;
          1661;
          1662;
          1663;
          1664;
          1665;
```

```
                1595;
                1659;
                1660;
            }

    CaseOf 1867:            // Graphics
        subassgn={
                2161;
                2344;
                2345;
                2346;
                2703;
                2720;
                3062;
                3099;
                3210;
                3245;
                3760;
            }


    Default:
        subassgn={
                -1;
            }

    ENDSwitch
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: SavingDoc
//
//*********************************************
PROCEDURE SavingDoc()
        tbox={    "To save and exit your document,";
                "";
                "► Choose [Bold On]File[Bold Off],";
                "  then [Bold On]Exit[Bold Off].";
                "  -or-";
                "► Press [Bold On]F7.";
                "";
            }
        FileMenu(&valid)
        allow={  1473;}
        exallow={ 0;}
        accel={ 101;}
        exaccel={ 1;}
        NoSubMenu(&subval;&subacl;&exsubacl;&subs)

        funkey={-8154;}

        Repeat
        hbox1={  "► Choose [Bold On]File.";}
        hbox2={  "► Choose [Bold On]Exit.";}
        hbox3={  -1;}
        DisplayRewrite
        Result=PostIt("Coach";&tbox;33;13;0;2;0)
        MenuActive=0
            Show=HotSpot(0;0;62;0;-543;&funkey;1)

            Switch(Show)

                CaseOf 1:     // Show menu
                    sbox={ "► Choose [Bold On]Exit";}
                    Result=PostIt("Coach";&tbox;33;13;0;3;0)
                    ShowMenu("Coach";&sbox;2;14-ScrnMode;0;14;0;0)

                CaseOf 309:  // Click on File

                CaseOf -543: // Alt+F
                    Result=PostIt(DefTitle;&tbox;33;13;0;3;0)
                    PullDownDlg
                    Type("f")
                    MenuActive=8154
```

```
        CaseOf -8154:    // [F7]

        CaseOf -8085:    // Alt+=
            sbox={-1;}
            Result=PostIt(DefTitle;&tbox;33;13;0;3;0)
            MenuActive=MenuBarControl("Coach";&hbox1;&sbox;30;5-ScrnMode;102;&funkey)

        DEFAULT:         // Default
            sbox={-1;}
            MenuActive=MenuBarControl("Coach";&hbox1;&sbox;30;5-ScrnMode;102;&funkey)

    ENDSwitch
    If(MenuActive <> -1)
        If(Show <> -8154 and MenuActive <> -8154)
            Result=MenuControl(&hbox1;&hbox2;&hbox3;&valid;
            &allow;&exallow;&accel;&exaccel;&subval;&subacl;
            &exsubacl;&subs;&funkey)
            MenuActive=Result
            If(MenuActive = 1473)
                CancelMenus()
                DisplayRewrite
                ExitDlg
            Endif
        Else
            CancelMenus()
            DisplayRewrite
            ExitDlg
        Endif
    Endif
    If(MenuActive = -1)
        Result=PostIt(DefTitle;&tbox;33;13;0;2;0)
    Endif
Until(MenuActive <> -1)


    While(?Dialog <> -1)
//      DisplayRewrite
        Switch(?Dialog)
            CaseOf 43:
                    ExitDlgProc()

            CaseOf 47:
                    FileSaveDlgProc()

            CaseOf 494:
```

```
                          ExitWpProc()

                 CaseOf 270:
                          ExitDocProc()

             CaseOf 0:
                          ReplaceProc()

             ENDSwitch
           ENDWHILE
//      If(?DocBlank = 0)
//          tbox={ "Document is Blank.";
//              }
//          Result=MessageBox(DefTitle;&tbox;1)
//      Endif
//Until(?DocBlank)
        DlgInput(Off!)
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: ExitDlgProc
//
//*********************************************
PROCEDURE ExitDlgProc()
        x1={20;34;}
        x2={31;40;}
        y1={14;14;}
        y2={14;14;}
        hotkey={115;121;}
        hotpnt={1;1;}
        tbox={    "► Choose [Bold On]Yes[Bold Off] to save the file (or choose [Bold On]Save As[Bold Off]";
              "  to save the file with a different name).              ";
              "";
                    }
                  }
        helpmsg={    "► Choose [Bold On]Save As[Bold Off] or [Bold On]Yes.";
                    "                                      ";
            }
        Result=0 SaveScrn=0
        While(?Dialog = 43)

            Switch(?DialogControl)

                CaseOf 55:                  //Save As button
                    info={55;
                         43;
                         1;
                         DefTitle;
                         12;
                         16;
                         1;
                         "Coach";
                         1;
                         0;
                      }
                accel={121;115;}
                aclpnt={1;1;}
                Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;
                &hotpnt;&accel;&aclpnt;&tbox;&helpmsg)

                CaseOf 423:            //Yes button
                    info={423;
                         43;
                         1;
                         DefTitle;
```

```
                        12;
                        16;
                        1;
                        "Coach";
                        1;
                        0;
                    }
            accel={115;121;}
            aclpnt={1;1;}
            Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;
            &hotpnt;&accel;&aclpnt;&tbox;&helpmsg)

        DEFAULT:                    // Cancel Button
            info={?DialogControl;
                    43;
                    1;
                    DefTitle;
                    12;
                    16;
                    1;
                    "Coach";
                    1;
                    1;
                }
            accel={115;121;}
            aclpnt={1;1;}
            allow={55;423}
            Result=InvalidControl(&info;&x1;&x2;&y1;&y2;&hotkey;
            &hotpnt;&accel;&aclpnt;&tbox;&helpmsg;&allow)
        ENDSwitch
    EndWhile
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: ReplaceProc
//
//*********************************************
PROCEDURE ReplaceProc()
        x1={33;44;}
        x2={41;51;}
        y1={13;13;}
        y2={13;13;}
        hotkey={121;110;}
        hotpnt={1;1;}
        helpmsg={ "► Choose a replace option.";
                "";}
        tbox={     "► Choose the desired replace option.";
                "";
              }
        Result=0 SaveScrn=0
        While(?Dialog = 0)
            If(Result = "Hint")
        hbox={    "Answering [Bold On]Yes[Bold Off] will overwrite the previous version";
                "of this file.  If you do not want to loose the previous";
                "version of this file, choose [Bold On]No[Bold Off] and you will be";
                "prompted for a new filename."}
                Hint=Hint(&hbox;-99;-99;3)
            Endif

            Switch(?DialogControl)

                CaseOf 4368:         //Yes button
                    info={4368;
                            0;
                            1;
                            DefTitle;
                            20;
                            16;
                            4;
                            "Coach";
                            1;
                            0;
                        }
                    accel={110;121;}
                    aclpnt={1;1;}
                    Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
                    &accel;&aclpnt;&tbox;&helpmsg)
```

```
        CaseOf 2:          //No button
            info={2;
                  0;
                  1;
                  DefTitle;
                  20;
                  16;
                  4;
                  "Coach";
                  1;
                  0;
                }
            accel={121;110}
            aclpnt={1;1;}
            Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
            &accel;&aclpnt;&tbox;&helpmsg)

        DEFAULT:
            info={?DialogControl;
                  0;
                  1;
                  DefTitle;
                  20;
                  16;
                  4;
                  "Coach";
                  1;
                  0;
                }
            accel={121;110;}
            aclpnt={1;1;}
            allow={4368;2}
            Result=InvalidControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
            &accel;&aclpnt;&tbox;&helpmsg;&allow)
        ENDSwitch
      EndWhile
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: FileSaveDlgProc
//
//*********************************************
PROCEDURE FileSaveDlgProc()
        x1={  2;59;}
        x2={ 71;66;}
        y1={  9;15;}
        y2={  9;15;}
        hotkey={49;-8182;}
        hotpnt={1;1;}
        helpmsg={    "► Choose [Bold On]OK[Bold Off] after entering a filename.";
                     "                                                         ";
                  }
        tbox={"► Type a filename and press [Bold On]Enter.";
              "                                           ";
             }
        Result=0 SaveScrn=0
        While(?Dialog = 47)
           If(Result = "Hint")
               hbox={   "Good filenames are descriptive and, therefore, easily";
                        "remembered.  The following rules govern the naming of";
                        "files:";
                        "";
                        "  ● The name must be from one to eight characters in";
                        "    length and may have an extension of up to three";
                        "    characters.";
                        "";
                        "  ● Do not use the following symbols in a filename:";
                        "    [ ] | < > = + ; , ? *";
                        "";
                        "  ● Use a period to separate the name from the extension.";
                        "";
                        "  ● You cannot use a blank or a space in the filename.";
                        "";
                        "  ● Mix letters, numbers and symbols as desired (for example,";
                        "    NAMES_1.SEC is a valid filename).";
                        "";
                     }
               Hint=Hint(&hbox;-99;-99;3)
           Endif

           Switch(?DialogControl)

               CaseOf 195:            //Filename text entry
```

```
        info={195;
                47;
                1;
                DefTitle;
                17;
                18;
                4;
                "Coach";
                1;
                1;
            }
        accel={-8148;-8156;-8152;-8155;-8153;}    //Don't allow
        aclpnt={2;2;2;2;2}                  //these func keys
        HotElement=1
        Result=WinEdControl(&info;&x1;&x2;&y1;&y2;&hotkey;
        &hotpnt;&accel;&aclpnt;&tbox;&helpmsg)

CaseOf 0:              //Ok button
        info={0;
                47;
                1;
                DefTitle;
                17;
                18;
                4;
                "Coach";
                1;
                0;
            }
        accel={49;102;}
        aclpnt={0;0;}
        Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
        &accel;&aclpnt;&tbox;&helpmsg)

DEFAULT:
        info={?DialogControl;
                47;
                1;
                DefTitle;
                17;
                18;
                4;
                "Coach";
                1;
                0;
            }
```

```
                accel={49;102;}
                aclpnt={1;1;}
                allow={195;0}
                Result=InvalidControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
                &accel;&aclpnt;&tbox;&helpmsg;&allow)
        ENDSwitch
     EndWhile
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: ExitWpProc
//
//*********************************************
PROCEDURE ExitWpProc()
        x1={  36;}
        x2={  41;}
        y1={  13;}
        y2={  13;}
        hotkey={110;}
        hotpnt={1;}
        helpmsg={    "► Choose [Bold On]No";
                     "              ";}
        tbox={    "Answer [Bold On]No[Bold Off] to continue in WordPerfect.";
                  "                              ";
            }
        Result=0 SaveScrn=0
        While(?Dialog = 494)
            If(Result = "Hint")
                hbox={    "Hints go here."}
                Hint=Hint(&hbox;-99;-99;3)
            Endif

            Switch(?DialogControl)

                CaseOf 3942:          //No button
                    info={3942;
                          494;
                          1;
                          DefTitle;
                          20;
                          16;
                          0;
                          "Coach";
                          1;
                          0;
                        }
                accel={110;}
                aclpnt={1;}
                Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
                &accel;&aclpnt;&tbox;&helpmsg)

                DEFAULT:
                    info={?DialogControl;
                          494;
```

```
                        1;
                        DefTitle;
                        20;
                        16;
                        0;
                        "Coach";
                        1;
                        0;
                    }
                accel={110;}
                aclpnt={1;}
                allow={3942}
                Result=InvalidControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
                &accel;&aclpnt;&tbox;&helpmsg;&allow)
            ENDSwitch
        EndWhile
ENDPROC
```

```
//**********************************************
//
//   PROCEDURE: ExitDocProc
//
//**********************************************
PROCEDURE ExitDocProc()
        x1={  32;41;49;}
        x2={  38;46;56;}
        y1={  15;15;15;}
        y2={  15;15;15;}
        hotkey={121;110;-8182;}
        hotpnt={1;1;1;}
        helpmsg={    "Make your choice";
                        "";}
        tbox={    "► Answer [Bold On]No[Bold Off] to remain in the document.";
                  "                              ";
            }
        Result=0 SaveScrn=0
        While(?Dialog = 270)
            If(Result = "Hint")
                hbox={    "Hints go here."}
                Hint=Hint(&hbox;-99;-99;3)
            Endif

            Switch(?DialogControl)

                CaseOf 1088:
                    info={1088;
                          270;
                          1;
                          DefTitle;
                          10;
                          16;
                          4;
                          "Coach";
                          1;
                          0;
                        }
                    accel={110;}
                    aclpnt={1;}
                    Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
                    &accel;&aclpnt;&tbox;&helpmsg)

                CaseOf 1089:
                    info={1089;
                          270;
```

```
                1;
                DefTitle;
                10;
                16;
                4;
                "Coach";
                1;
                0;
            }
        accel={121;}
        aclpnt={1;}
        Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
        &accel;&aclpnt;&tbox;&helpmsg)

    CaseOf 1:
        info={1;
                270;
                1;
                DefTitle;
                10;
                16;
                4;
                "Coach";
                1;
                0;
            }
        accel={110;121;}
        aclpnt={1;1;}
        Result=ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
        &accel;&aclpnt;&tbox;&helpmsg)

    DEFAULT:
        info={?DialogControl;
                270;
                1;
                DefTitle;
                10;
                16;
                4;
                "Coach";
                1;
                0;
            }
        accel={110;121;}
        aclpnt={1;1;}
        allow={1088;1089;1}
```

```
            Result=InvalidControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;
            &accel;&aclpnt;&tbox;&helpmsg;&allow)
        ENDSwitch
    EndWhile
ENDPROC
```

```
//*********************************************
//
//   PROCEDURE: NotFoundCoach
//
//*********************************************
PROCEDURE NotFoundCoach()
      SHOWCOLOR(Off!)
      tbox={    "Not Found ";
             "";
          }
      Result=MessageBox("";&tbox;1)
      SHOWCOLOR(On!)
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: CancelCoach
//
//*********************************************
PROCEDURE CancelCoach()
        If(?Dialog = 2)
            CancelMenus()
        Else
            If(?Dialog=36)
                tbox={      "";
                        "     Quit Coach?     ";
                        "";
                    }
                If(MessageBox("Coach";&tbox;5) = 1)
                    QuitCoach()
                Endif
        Else
            If(?Dialog <> -1 and CancelMsg)
                CancelKey
            Else
                tbox={     "";
                        "     Quit Coach?     ";
                        "";
                    }
                If(MessageBox("Coach";&tbox;5) = 1)
                    QuitCoach()
                Endif
            Endif
            Endif
        Endif
//*********************************************
//   The next command is a remedy for a bug
//*********************************************

        If(Exists(BugFix))
            PosCharNext
            PosCharPrevious
            DISCARD(BugFix)
        Endif

//*********************************************
//*********************************************

ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: QuitCoach
//
//*********************************************
PROCEDURE QuitCoach()
        While(?Substructure)
            SubstructureExit
        Endwhile
        While (?Dialog=36)
            Close
        Endwhile
        CancelMenus()
        CancelDialogs()
        WindowMaximize
        RestoreStates()
        Quit
ENDPROC
```

```
//**********************************************
//
//   PROCEDURE: SetBoxSize
//
//**********************************************
PROCEDURE SetBoxSize()
       w=StrLen(tbox[1])              // Determine box size
       tst=StrLen(title)
       If(tst>w)
           w=tst
       EndIf
       ForNext(x;2;tbox[0])
           tst=StrLen(tbox[x])
               If(tst>w)
                   w=tst
               EndIf
       EndFor
       h=tbox[0]
       w=w+4 h=h+4
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: PleaseWait
//
//*********************************************
PROCEDURE PleaseWait()
        Display(Off!)
        tbox={    "";
                "Please Wait...";
                "";
            }
        Result=MessageBox("Coach";&tbox;0)
ENDPROC
```

```
//*********************************************
//
//    PROCEDURE: CheckColorSet
//
//*********************************************
PROCEDURE CheckColorSet()
        Global(ColorSet)
        Display(Off!)
        DlgInput(On!)
        ScreenDlg
        GotoDlg
        Type("2")
        If(?Entry = 1)
            ColorSet=1
        Else
            ColorSet=0
        Endif
        CancelKey
        Display(On!)
ENDPROC
```

```
//**********************************************
//
//    PROCEDURE: ColorScheme
//
//**********************************************
PROCEDURE ColorScheme()
        If(?Substructure)
            Beep
            tbox={      "";
                    "Please return to a normal document";
                    "screen then restart this coach.";
                    "";
                }
            Result=Messagebox("Coach";&tbox;1)
            Quit
        EndIf
        If(Not Exists(ColorSet))
            CheckColorSet()
        Endif
        Error(On!)
        If(ColorSet = 1)
            OnError(TextDefaultScheme)
            ColorSchemeCreate("[WP Coach]")
            ColorSchemeAssign("[WP Coach]";20;248)
            ColorSchemeAssign("[WP Coach]";24;244)
            ColorSchemeAssign("[WP Coach]";22;242)
            ShowColor(On!;"[WP Coach]")
            Error(Off!)
            Break

            Label(TextDefaultScheme)
            Display(Off!)
            DlgInput(On!)
            TextScreenOptionsDlg
            Type("2")
            If(?Entry = "[WP Coach]")
                ShowColor(On!;"[Gettysburg]")
            Else
                ShowColor(On!;"[WP Coach]")
            Endif
            CancelDialogs()
            DlgInput(Off!)
        Else
            OnError(GraphDefaultScheme)
            GraphicsColorsCreate("[WP Coach]")
            GraphicsColorsAssign("[WP Coach]";DlgActiveTitle!;0;127;0)
```

```
            GraphicsColorsAssign("[WP Coach]";DlgBackground!;255;255;175)
            GraphicsColorsAssign("[WP Coach]";DlgBoldTextColor!;191;0;0)
            ShowColor(On!;"[WP Coach]")
            Error(Off!)
            Break

            Label(GraphDefaultScheme)
            Display(Off!)
            DlgInput(On!)
            GraphicsScreenOptionsDlg
            Type("2")
            If(?Entry = "[WP Coach]")
                ShowColor(On!;"[WP Default]")
            Else
                ShowColor(On!;"[WP Coach]")
            Endif
            CancelDialogs()
            DlgInput(Off!)
        Endif
        Error(Off!)
        Display(On!)
ENDPROC
```

```
//*******************************************
//   FUNCTIONS
//*******************************************
```

```
//*********************************************
//
//   FUNCTION: PostIt
//
//*********************************************
FUNCTION PostIt(Title;&tbox;xpos;ypos;Modal;Buttons;Steps)
    Global(xposS1;xposS2;xposH1;xposH2;xposQ1;xposQ2;yposS1;yposQ1)
    Look(Key)
    While(Key <> 0)
        Look(Key)
    EndWhile

    w=StrLen(tbox[1])
    tst=StrLen(Title)
    If(tst > w)
        w=tst
    Endif
    If(Steps)
        If((12+StrLen(StepText)) > w)
            w=StrLen(StepText)+12
        Endif
    Endif
    ForNext(x;2;tbox[0])
        tst=StrLen(tbox[x])
        If(tst > w)
            w=tst          // w = width of inside of box
        Endif
    Endfor
    If(Steps = 0 and Buttons = 0)
        h=tbox[0]+2
    Else
        If(Steps = 0)
            h=tbox[0]+3
        Else
            h=tbox[0]+5  // h = height of inside of box
        Endif
    Endif
    w=w+4
    If(Buttons > 0 and Buttons < 5)
        If(Buttons = 1)
            If(w < 18)
                w=18
            Endif
        Else
            If(w < 32)
                w=32
```

```
            Endif
        Endif
Else
    If(Buttons = 5)
        If(w < 52)
            w=52
        Endif
    Endif
Endif
If(Buttons = 6)
    h=h+2
EndIf

If(Modal)
    If(xpos = -99 and ypos = -99)
        DlgCreate(Result;Title;DlgNoOk!+DlgNoCancel!;
        ;;w;h)
    Else
        If(xpos <> -99 and ypos = -99)
            DlgCreate(Result;Title;DlgNoOk!+DlgNoCancel!;
            xpos;;w;h)
        Else
            If(xpos = -99 and ypos <> -99)
                DlgCreate(Result;Title;
                DlgNoOk!+DlgNoCancel!;
                ;ypos+ScrnMode;w;h)
                xpos=40-w/2
            Else
                DlgCreate(Result;Title;
                DlgNoOk!+DlgNoCancel!;
                xpos;ypos+ScrnMode;w;h)
            Endif
        Endif
    Endif
Else
    If(xpos = -99 and ypos = -99)
        DlgCreate(Result;Title;DlgInactive!+DlgNoClear!+
        DlgNoOk!+DlgNoCancel!;
        ;;w;h)
    Else
        If(xpos <> -99 and ypos = -99)
            DlgCreate(Result;Title;
            DlgInactive!+DlgNoClear!+
            DlgNoOk!+DlgNoCancel!;
            xpos;;w;h)
        Else
```

```
        If(xpos = -99 and ypos <> -99)
            DlgCreate(Result;Title;DlgInactive!+DlgNoClear!+
            DlgNoOk!+DlgNoCancel!;
            ;ypos+ScrnMode;w;h)
            xpos=40-w/2
        Else
            DlgCreate(Result;Title;
            DlgInactive!+DlgNoClear!+
            DlgNoOk!+DlgNoCancel!;
            xpos;ypos+ScrnMode;w;h)
        Endif
    Endif
  Endif
Endif
If(Buttons = 1)
    DlgControl(CtrlPushButton!;;"Quit...[Bold On]Esc[Bold Off]";;w-15;h-2)
    DlgControl(CtrlPushButton!;;"Quit...[Bold On]Esc[Bold Off]";;w-15;h-2)

    xposS1=0
    xposS2=0

    xposH1=0
    xposH2=0

    xposQ1=xpos+w-15
    xposQ2=xpos+w-4

    yposS1=ypos+h-2
Else
    If(Buttons = 2 or Buttons = 3)
        If(Buttons = 2)
            DlgControl(CtrlPushButton!;;"  Show Me ";;w-29;h-2)

            DlgControl(CtrlPushButton!;;"Quit...[Bold On]Esc[Bold Off]";;w-15;h-2)

            xposS1=xpos+w-29
            xposS2=xpos+w-18

            xposH1=0
            xposH2=0

            xposQ1=xpos+w-15
            xposQ2=xpos+w-4

            yposS1=ypos+h-2
            ShowPosition(xposS1+3;yposS1+ScrnMode)
```

```
        Else
            DlgControl(CtrlPushButton!;;"   Show Me ";StyGray!;w-29;h-2)

            DlgControl(CtrlPushButton!;;"Quit...Esc";StyGray!;w-15;h-2)

            xposS1=0
            xposS2=0

            xposH1=0
            xposH2=0

            xposQ1=0
            xposQ2=0

            yposS1=0
        Endif
    Else
        If(Buttons = 4)
            DlgControl(CtrlPushButton!;;" Hint...[Bold On]F1[Bold Off]";;w-29;h-2)
            DlgControl(CtrlPushButton!;;" Hint...[Bold On]F1[Bold Off]";;w-29;h-2)

            DlgControl(CtrlPushButton!;;"Quit...[Bold On]Esc[Bold Off]";;w-15;h-2)

            xposS1=0
            xposS2=0

            xposH1=xpos+w-29
            xposH2=xpos+w-18

            xposQ1=xpos+w-15
            xposQ2=xpos+w-4

            yposS1=ypos+h-2
        Else
            If(Buttons = 5)
                DlgControl(CtrlPushButton!;;"Show Me...[Bold On]Ctrl+S[Bold Off]";;w-49;h-2)
                DlgControl(CtrlPushButton!;;"Show Me...[Bold On]Ctrl+S[Bold Off]";;w-49;h-2)

                DlgControl(CtrlPushButton!;;" Hint...[Bold On]F1[Bold Off]";;w-29;h-2)

                DlgControl(CtrlPushButton!;;"Quit...[Bold On]Esc[Bold Off]";;w-15;h-2)

                xposS1=xpos+w-49
                xposS2=xpos+w-32

                xposH1=xpos+w-29
```

```
                xposH2=xpos+w-18

                xposQ1=xpos+w-15
                xposQ2=xpos+w-4

                yposS1=ypos+h-2
            Else
                If(Buttons = 6)
                    DlgControl(CtrlPushButton!;;
                    "Show Me...[Bold On]Ctrl+S[Bold Off]";;w-20;h-4;10;1)
                    DlgControl(CtrlPushButton!;;
                    "Show Me...[Bold On]Ctrl+S[Bold Off]";;w-20;h-4;10;1)

                    DlgControl(CtrlPushButton!;;
                    "  Quit...[Bold On]Esc[Bold Off]   ";;w-20;h-2;10;1)

                    xposS1=xpos+w-20
                    xposS2=xpos+w-3
                    yposS1=ypos+h-4

                    xposQ1=xpos+w-20
                    xposQ2=xpos+w-3
                    yposQ1=ypos+h-2
                Else
                    xposS1=-1
                    xposS2=-1

                    xposH1=-1
                    xposH2=-1

                    xposQ1=-1
                    xposQ2=-1

                    yposS1=-1
                Endif
            Endif
        Endif
    Endif
Endif
If(Steps)
    DlgControl(CtrlLabel!;;
    "[Bold On]Step "+StepNum+" - "+StepText+"[Bold Off]";;2;1;;1)
    ForNext(x;1;tbox[0])
        DlgControl(CtrlLabel!;;tbox[x];;2;x+2;w-1;1)
    Endfor
Else
```

```
        ForNext(x;1;tbox[0])
            DlgControl(CtrlLabel!;;tbox[x];;2;x;w-1;1)
        Endfor
    Endif
DlgEnd
Return(Result)
ENDFUNC
```

```
//*********************************************
//
//    FUNCTION: NoBlock
//
//*********************************************
FUNCTION NoBlock()
        tbox={            "Nothing is blocked.";
                          " ";
                }
        Result=MessageBox(DefTitle;&tbox;1)
        Return(Result)
ENDFUNC
```

```
//*********************************************
//
//    FUNCTION: NoSelect
//
//*********************************************
FUNCTION NoSelect()
        Result=1
        If(?LeftCode = -11241)
            tbox={          "Block is on, but no text";
                            "has been selected.";
                            "";
                }
            Result=MessageBox("Coach";&tbox;1)
        Endif
        Return(Result)
ENDFUNC
```

```
//*********************************************
//
//   FUNCTION: MessageBox
//
//*********************************************
FUNCTION MessageBox(Title;&tbox;Buttons)
        Look(Key)
        While(Key <> 0)
            Look(Key)
        EndWhile

        w=StrLen(tbox[1])
        tst=StrLen(Title)
        If(tst > w)
            w=tst
        Endif
        ForNext(x;2;tbox[0])
            tst=StrLen(tbox[x])
            If(tst > w)
                w=tst            // w = width of inside of box
            Endif
        Endfor
        h=tbox[0]               // h = height of inside of box
        w=w+4
        If(Buttons)
            h=h+3
        Else
            h=h+2
        Endif
        If(Buttons = 1)
            DlgCreate(Result;Title;DlgNoCancel!;;;w;h)
        Else
            If(Buttons = 2)
                DlgCreate(Result;Title;;;;w;h)
            Else
                If(Buttons = 0)
                    DlgCreate(Result;Title;DlgNoCancel!+DlgNoOk!+
                    DlgInactive!+DlgNoClear!;
                    ;;w;h)
                Else
                    If(w < 26)
                        w=26
                    Endif
                    DlgCreate(Result;Title;DlgNoCancel!+DlgNoOk!;
                    ;;w;h)
                Endif
```

```
            Endif
        Endif
        If(Buttons = 3)
            DlgControl(CtrlPushbutton!;;"  ~Yes  ";;w-23;h-2)
            DlgControl(CtrlPushbutton!;;"   ~No  ";;w-12;h-2)
        Endif
        If(Buttons = 4)
            DlgControl(CtrlPushbutton!;;"  ~Yes  ";;w-35;h-2)
            DlgControl(CtrlPushbutton!;;"   ~No  ";;w-24;h-2)
            DlgControl(CtrlPushbutton!;;"Quit...[Bold On]Esc[Bold Off]";StyCancel!;w-13;h-2)
        Endif
        If(Buttons = 5)
            DlgControl(CtrlPushbutton!;;"  ~Yes  ";;w-23;h-2)
            DlgControl(CtrlPushbutton!;;"   ~No  ";StyDefault!;w-12;h-2)
        Endif
        If(Buttons = 6)
            DlgControl(CtrlPushButton!;;"Quit...[Bold On]Esc[Bold Off]";StyCancel!;w-15;h-2)
        Endif
        If(Buttons = 7)
            DlgControl(CtrlPushButton!;;"Continue";;w-13;h-2)
        Endif
        If(Buttons = 8)
            DlgControl(CtrlPushButton!;;" ~Continue ";;w-30;h-2)
            DlgControl(CtrlPushButton!;;"Quit...[Bold On]Esc[Bold Off]";StyCancel!;w-15;h-2)
        Endif
        ForNext(x;1;tbox[0])
            DlgControl(CtrlLabel!;;tbox[x];;2;x;w-1;1)
        Endfor
        DlgEnd
        Return(Result)
ENDFUNC
```

```
//*********************************************
//
//   FUNCTION: HotSpot
//
//*********************************************
FUNCTION HotSpot(xpos1;ypos1;xpos2;ypos2;AltKey;&funkey;Execute)
        Global(ChkMenu)
        ChkMenu=1
        If(funkey[1] = -1)
            funkey[0]=0
        Endif

        DlgInput(On!)
        Show=0
        Look(Key)
        While(Key <> 0)
            Look(Key)
        EndWhile

        Cancel(On!)
        OnCancel Call(CancelCoach)

        While(1)
            Char(Key)
            If(Key = -8182)        // Enter key
                Show=1
                        // Show menu
                Break
            Endif
            If(Key = -768)
                If((?MouseLeft)
                and (?MouseLastX >= xpos1 and ?MouseLastX <= xpos2)
            and (?MouseLastY >= ypos1 and ?MouseLastY <= ypos2))
                // Hotspot
                    If(Execute)
                        Type(ntoc(Key))
                        Show=?DialogControl
                    Endif
                    While(?MouseLeft)
                    EndWhile
                    Break
                Else
                    If(?MouseLastY = (yposS1 + ScrnMode))
                        If((?MouseLastX >= xposS1) and (?MouseLastX <= xposS2))
                // Show button
                            Show=1
```

```
                    While(?MouseLeft)
                    EndWhile
                    Break
              Else
                  If((?MouseLastX >= xposH1) and (?MouseLastX <= xposH2))
                      Show=2
                      While(?MouseLeft)
                      EndWhile

                      Break
                  Else
                      If((?MouseLastX >= xposQ1) and (?MouseLastX <= xposQ2))
                          While(?MouseLeft)
                          EndWhile
                          CancelCoach()
                      Endif
                  Endif
              Endif
          Endif
      Endif
  Endif
  If(Key = AltKey)
      // Accelerator key
      Show=AltKey
              // Accel menu
      Break
  Endif
  If(funkey[0] <> 0)
      If(Filter(&funkey;Key;2))
          Show=Key
              // Execute function key
          Break
      Endif
  Endif
  If(Key = -8085)         // Alt+Equal keys
      PullDownDlg
      Show=Key
              // Choose menu
      Break
  Endif
  EndWhile
  Cancel(Off!)
  Return(Show)
ENDFUNC
```

```
//**********************************************
//
//   FUNCTION: DoEdit
//
//**********************************************
FUNCTION DoEdit(EnableMouse;&chkcode;&keypress)
        Global(Element)
        If(keypress[1] = -1)
            keypress[0]=0
        Endif
        If(chkcode[1] = -1)
            chkcode[0]=0
        Endif

        Switch(FakeBtns)

        CaseOf 3:
            Lft1a=45 Lft1b=59
            Lft2a=62 Lft2b=76
            Lft3a=0 Lft3b=0

        CaseOf 4:
            Lft1a=45 Lft1b=59
            Lft2a=62 Lft2b=76
            Lft3a=25 Lft3b=42

        CaseOf 5:
            Lft1a=45 Lft1b=59
            Lft2a=62 Lft2b=76
            Lft3a=28 Lft3b=42

        CaseOf 6:
            Lft1a=0 Lft1b=0
            Lft2a=62 Lft2b=76
            Lft3a=42 Lft3b=59

        CaseOf 7:
            Lft1a=0 Lft1b=0
            Lft2a=62 Lft2b=76
            Lft3a=45 Lft3b=59

        CaseOf 8:
            Lft1a=0 Lft1b=0
            Lft2a=62 Lft2b=76
            Lft3a=0 Lft3b=0
```

```
DEFAULT:
    Lft1a=51 Lft1b=62
    Lft2a=65 Lft2b=76
    Lft3a=0 Lft3b=0

ENDSwitch


Look(Key)
While(Key <> 0)
    Look(Key)
EndWhile

NotFound(On!)
OnNotFound Call(NotFoundCoach)

Cancel(On!)
OnCancel Call(CancelCoach)

While(1)
    Char(Key)
    If(Key = -768)
        If((?MouseLastY < AreaHgt and ?MouseLastY > 1)
        and (?MouseLastX > 0 and ?MouseLastX < 79)
        and (EnableMouse) and (?MouseRightClick = 0))
            Type(ntoc(Key))
        Else
            If((?MouseLastX >= Lft1a) and (?MouseLastX <= Lft1b) and
            (?MouseLastY = (23+ScrnMode)))
                Result=NoSelect()
                If(Result <> 2 and FakeBtns)
                    Key=1
                    Break
                Endif
            Else
                If((?MouseLastX >= Lft2a) and (?MouseLastX <= Lft2b) and
                (?MouseLastY = (23+ScrnMode)))
                    Call(CancelCoach)
                Else
                    If((?MouseLastX >= Lft3a) and (?MouseLastX <= Lft3b) and
                    (?MouseLastY = (23+ScrnMode)))
                        Key=3
                        Break
                    Else
                        While(?MouseLeft)
                        EndWhile
```

```
                Endif
            Endif
        Endif
    Endif
Else
    If(Key <> -8154 and Key <> -8146 and Key <> -8142 and Key <> -8139 and
    Key <> -8124 and Key <> -8050 and Key <> -8160 and Key <> -8140 and
    Key <> -8118 and Key <> -8115)
        // F7, Shft+F3, Shft+F7, Shft+F10
        // Ctrl+F1, Ctrl+S, Esc, Shft+F9, Ctrl+F7, Ctrl+F10
        If(Key = -8112 and chkcode[0] <> 0)
            If(CodeFilter(&chkcode;?LeftCode))
                DeleteCharPrevious
                Key=chkcode[Element]
                Break
            Endif
        Endif
        If(Key = -8111 and chkcode[0] <> 0)
            If(CodeFilter(&chkcode;?RightCode))
                DeleteCharNext
                Key=chkcode[Element]
                Break
            Endif
        Endif
        Type(ntoc(Key))
    Endif
Endif
If(?BlockActive)
    BlockOff
Endif
If(keypress[0] <> 0)
    Result=Filter(&keypress;Key;1)
    If(Result)
        Key=keypress[Result]
        Break
    Endif
Endif
If(FakeBtns = 4 or FakeBtns = 6)
    If(Key = -8050 and ?Dialog = -1)     // Ctrl+S
        Key=3
        Break
    Endif
Endif
If(FakeBtns = 5 or FakeBtns = 7)
    If(Key = -8158 and ?Dialog = -1)     // F1 Key
        Key=3
```

```
            Break
         Endif

      Endif
   EndWhile
   NotFound(Off!)
   Cancel(Off!)
   Return(Key)
ENDFUNC
```

```
//*********************************************
//
//    FUNCTION: MenuBarControl
//
//*********************************************
FUNCTION MenuBarControl(Title;&hbox1;&sbox;xpos;ypos;MnuLtr;&funkey)
      Global(ChkMenu;Element)
      ChkMenu=1
      If(sbox[1]=-1)
          sbox[0]=0
      Endif
      If(funkey[1] = -1)
          funkey[0]=0
      Endif

      Cancel(On!)
      OnCancel Call(CancelCoach)
      If(MnuLtr < 91)
          MnuLtr=MnuLtr + 32
      Endif
      Switch(MnuLtr)

      CaseOf 102:           // (F)ile
          allow={        310;
                    321;
              }
          FileMenu(&valid)

      CaseOf 101:           // (E)dit
          allow={        1476;
                    1477;
              }
          EditMenu(&valid)

      CaseOf 118:           // (V)iew
          allow={        1503;
                    1504;
              }
          ViewMenu(&valid)

      CaseOf 108:           // (L)ayout
          allow={        1532;
                    1533;
              }
          LayoutMenu(&valid)
```

```
CaseOf 116:              // (T)ools
    allow={        0;
              1597;
        }
    ToolsMenu(&valid)

CaseOf 111:              // F(o)nt
    allow={        1656;
              1657;
        }

    FontMenu(&valid)

CaseOf 103:              // (G)raphics
    allow={        1868;
              0;
        }
    GraphicsMenu(&valid)

CaseOf 119:              // (W)indow
    allow={        3522;
              3569;
        }
    WindowMenu(&valid)

CaseOf 104:              // (H)elp
    allow={        3708;
              4198;
        }
    HelpMenu(&valid)

ENDSwitch

MenuBar(&bar)
MenuPop(&pop)

Count=0 Option=-1 LineDown=0 ScrnRestore=0
While(?Dialog = 2)
    Char(Key)
    FunKeyFlag=0
    If(ScrnRestore)
        SHOWCODE(RestoreScreen!)
        ScrnRestore=0
    Endif
    Option=-1
    If(Key = -768)
```

```
        If(?MouseLeft)
            Type(ntoc(Key))
            Option=?DialogControl
        Else
            If(Filter(&bar;0;0))
                If(?MouseLastY <> 0 and bar[Element] = ?DialogControl)
                    CancelMenus()
                    Option=-1
                    Break
                Endif
                LineDown=1
            Endif
            If(Filter(&valid;0;0))
                Option=?DialogControl
                If(Filter(&bar;0;0))
                    PosLineDown
                Endif
                Break
            Else
                Count=Count+1
                If(LineDown)
                    PosLineDown
                    LineDown=0
                Else
                    If(Filter(&pop;0;0))
                        PosCharNext

                    Endif
                Endif
            Endif
        Endif
    Endif
Else
    If(Key = -8169 or Key = -8166 or Key = -8167 or
    Key = -8168)
        Type(ntoc(Key))
        If(Filter(&allow;0;0))
            Option=?DialogControl
            Break
        Endif
    Endif
    If(Key = MnuLtr)
        Type(ntoc(Key))
        Option=Key
        Break
    Endif
    If(Key = -8182)
```

```
                If(Filter(&bar;0;0))
                    HardReturn
                    If(Filter(&allow;0;0))
                        Option=?DialogControl
                        Break
                    Else
                        Count=Count+1
                    Endif
                Else
                    Count=Count+1
                Endif
            Endif
        Endif
        If(funkey[0] <> 0)
            If(Filter(&funkey;Key;2))
                CancelMenus()
                DisplayRewrite
                Type(ntoc(Key))
                    // Execute function key
                Option=Key
                FunKeyFlag=1
                Break
            Endif
        Endif
        If(Count > 1)
            SHOWCODE(SaveScreen!)
            Result=MessageBox("Coach";&hbox1;0)
            Wait(5)
            ScrnRestore=1
            Count=0
        Endif
    EndWhile
    Cancel(Off!)
    If(sbox[0] <> 0 and Option <> -1 and FunKeyFlag = 0)
        Result=PostIt(Title;&sbox;xpos;ypos;0;0;0)
    Endif
    Return(Option)
ENDFUNC
```

```
//*********************************************
//
//    FUNCTION: MenuControl
//
//*********************************************
FUNCTION MenuControl(&hbox1;&hbox2;&hbox3;&valid;&allow;&exallow;&accel;&exaccel;
        &subval;&subacl;&exsubacl;&subs;&funkey)
    Global(Element)

    If(subs[1] = -1)
        subs[0]=0
    Endif
    If(funkey[1] = -1)
        funkey[0]=0
    Endif

    Look(Key)
    While(Key <> 0)
        Look(Key)
    EndWhile

    Cancel(On!)
    OnCancel Call(CancelCoach)

    MenuBar(&bar)
    MenuPop(&pop)

    subassgn[0]=0
    AssignedSubs(&subassgn;valid[1])


    If(ChkMenu)
        If(Filter(&bar;0;0))
            PosLineDown
        Else
            Execute=DlgFilter(&allow;&exallow)
            If(Execute)
                Option=?DialogControl
                If(Execute = 2)
                    HardReturn
                    DisplayRewrite
                Endif
                Break
            Else
                If(Filter(&subs;0;0))
                    HardReturn
```

```
            Endif
        Endif
    Endif
Endif

Count=0 Option=-1 LineDown=0 ScrnRestore=0
While(?Dialog = 2)
    Char(Key)
    If(ScrnRestore)
        SHOWCODE(RestoreScreen!)
        ScrnRestore=0
    Endif
    Option=-1
    If(Key = -768)
        If(?MouseLeft)
            Type(ntoc(Key))
            Option=?DialogControl
        Else
            If(Filter(&bar;0;0))
                If(?MouseLastY <> 0 and bar[Element] = ?DialogControl)
                    CancelMenus()
                    Option=-1
                    Break
                Endif
                LineDown=1
            Endif
            Execute=DlgFilter(&allow;&exallow)
            If(Execute)
                Option=?DialogControl
                If(Execute = 2)
                    HardReturn
                    DisplayRewrite
                Endif
                Break
            Else
                Count=Count+1
                If(LineDown)
                    PosLineDown
                    LineDown=0
                Else
                    If(Filter(&pop;0;0))
                        PosCharNext
                    Endif
                Endif
            Endif
        Endif
```

```
Else
    If(Key = -8169 or Key = -8166 or Key = -8167 or
    Key = -8168)
        Type(ntoc(Key))
    Else
        If(Key = -8182)   // Enter key
            Execute=DlgFilter(&allow;&exallow)
            If(Execute)
                Option=?DialogControl
                If(Execute = 2)
                    HardReturn
                    DisplayRewrite
                Endif
                Break
            Else
                If(Filter(&subs;0;0))
                    HardReturn
                Else
                    Count=Count+1
                Endif
            Endif
        Else
            If(Key > 31 and Key < 127)
                If(Filter(&valid;0;0))
                    Execute=KeyFilter(&accel;Key;&exaccel)
                    If(Execute)
                        Option=Key
                        If(Execute = 2)
                            Type(ntoc(Key))
                        Endif
                        If(subs[0] = 0)
                            Break
                        Endif
                    Else
                        Count=Count+1
                    Endif
                Else
                    If(subs[0])
                        If(Filter(&subval;0;0))
                            Execute=KeyFilter(&subacl;Key;&exsubacl)
                            If(Execute)
                                Option=Key
                                If(Execute = 2)
                                    Type(ntoc(Key))
                                    DisplayRewrite
                                Endif
```

```
                        Break
                    Else
                        Count=Count+1
                    Endif
                Else
                    Count=Count+1
                Endif
            Else
                Count=Count+1
            Endif
          Endif
        Endif
      Endif
    Endif
  Endif
  If(funkey[0] <> 0)
    If(Filter(&funkey;Key;2))
      CancelMenus()
      DisplayRewrite
      Type(ntoc(Key))
        // Execute function key
      Option=Key
      Break
    Endif
  Endif
  If(Count > 1)
    SHOWCODE(SaveScreen!)
    If(Filter(&subval;0;0))
      Result=MessageBox("Coach";&hbox3;0)
    Else
      If(Filter(&subassgn;0;0))
        Result=MessageBox("Coach";&hbox2;0)
      Else
        If(Filter(&valid;0;0))
          Result=MessageBox("Coach";&hbox2;0)
        Else
          Result=MessageBox("Coach";&hbox1;0)
        Endif
      Endif
    Endif
    Wait(5)
    ScrnRestore=1
    Count=0
  Endif
EndWhile
Cancel(Off!)
```

```
        Return(Option)
ENDFUNC
```

```
//*********************************************
//
//   FUNCTION: ButtonControl
//
//*********************************************
FUNCTION ButtonControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;&accel;&aclpnt;&tbox;&helpmsg)
        Global(Element)
        If(SaveScrn=0 and info[9])
            SHOWCODE(SaveScreen!)
            SaveScrn=1
        Endif
        Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)

        CancelMsg=0
        Cancel(On!)
        OnCancel Call(CancelCoach)

        Look(Key)
        While(Key <> 0)
            Look(Key)
        EndWhile

        If(accel[1]=-1)
            accel[0]=0
        Endif

        Count=0
        While(?DialogControl = info[1] and ?Dialog = info[2])
            Char(Key)
            If(Key = -768)
                If(?MouseLeft and XYFilter(&x1;&x2;&y1;&y2))
                    Type(ntoc(Key))
                    While(?MouseLeft)
                    EndWhile
                    If(hotpnt[Element] = 2)
                        Wait(5)
                        If(?MouseLeftDouble)
                            SHOWCODE(RestoreScreen!)
                            HardReturn
                        Endif
                    Endif
                    If(hotpnt[Element] = 1)
                        SHOWCODE(RestoreScreen!)
                    Endif
                    Type(ntoc(hotkey[Element]))
                    If(hotpnt[Element] = 0)
```

```
                    Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
                Endif
            Else
                If(?MouseLastY = (yposS1 + ScrnMode))
                    If((?MouseLastX >= xposS1) and (?MouseLastX <= xposS2))
                        Key="Show"
                        Break
                    Else
                        If((?MouseLastX >= xposH1) and (?MouseLastX <= xposH2))
                            Key="Hint"
                            Break
                        Else
                            If((?MouseLastX >= xposQ1) and (?MouseLastX <= xposQ2))
                                CancelCoach()
                            Else
                                Count=Count+1
                            Endif
                        Endif
                    Endif
                Else
                    Count=Count+1
                Endif
            Endif
        Else
            If(Key = -8182 and Key <> -8160)   // Enter
                If(info[9])
                    SHOWCODE(RestoreScreen!)
                Endif
                Type(ntoc(Key))
            Else
                If(Key = -8183 or Key = -8098 or Key = -8182 or
                Key = -8166 or Key = -8169 or Key = -8167 or Key = -8168 or
                Key = -8103 or Key = -8102 or Key = -8184)
                    // Tab, Shft+Tab, Enter
                    // Down, Up, Left, Right
                    // PgUp, PgDown, Home

                    Type(ntoc(Key))
                Else
                    If(accel[0] <> 0)
                        If(Filter(&accel;Key;1))
                            If(aclpnt[Element])
                                SHOWCODE(RestoreScreen!)
                            Endif
                            Type(ntoc(Key))
                        Else
```

```
                        Count=Count+1
                    Endif
                Else
                    Count=Count+1
                Endif
            Endif
        Endif
    Endif
    If(Key = -8158)
        Key="Hint"
        Break
    Endif
    If(Key = -8050 and xposS1 <> 0)
        Key="Show"
        Break
    Endif
    If(Count > 1)
        Result=MessageBox(info[8];&helpmsg;1)
        Count=0
    Endif
  EndWhile
  Cancel(Off!)
  CancelMsg=1
  Return(Key)
ENDFUNC
```

```
//********************************************
//
//    FUNCTION: WinEdControl
//
//********************************************
FUNCTION WinEdControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;&accel;&aclpnt;&tbox;&helpmsg)
        Global(Element)
        If(SaveScrn=0 and info[9])
            SHOWCODE(SaveScreen!)
            SaveScrn=1
        Endif
        Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)


//********************************************
//    The next command is a remedy for a bug
//********************************************

If(info[10])
        PosCharNext
        PosCharPrevious
Endif

//********************************************
//********************************************


//********************************************
//    The next command is a remedy for a bug
//********************************************

        Global(BugFix)
        BugFix=1

//********************************************
//********************************************

        Look(Key)
        While(Key <> 0)
            Look(Key)
        EndWhile

        If(accel[1]=-1)
            accel[0]=0
        Endif

        CancelMsg=0
```

```
Cancel(On!)
OnCancel Call(CancelCoach)

Count=0
While(?DialogControl = info[1] and ?Dialog = info[2])
    Char(Key)
    If(Key = -768)
        If(?MouseLeft and XYFilter(&x1;&x2;&y1;&y2))
            Type(ntoc(Key))
            While(?MouseLeft)
            EndWhile
            If(hotpnt[Element] = 2)
                Wait(5)
                If(?MouseLeftDouble)
                    SHOWCODE(RestoreScreen!)
                    HardReturn
                Endif
            Endif
            If(hotpnt[Element] = 1)
                SHOWCODE(RestoreScreen!)
            Endif
            If(Element <> HotElement)
                Type(ntoc(hotkey[Element]))
            Endif
            If(hotpnt[Element] = 0)
                Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
            Endif
        Else
            If(?MouseLastY = (yposS1 + ScrnMode))

                If((?MouseLastX >= xposS1) and (?MouseLastX <= xposS2))
                    Key="Show"
                    Break
                Else
                    If((?MouseLastX >= xposH1) and (?MouseLastX <= xposH2))
                        Key="Hint"
                        Break
                    Else
                        If((?MouseLastX >= xposQ1) and (?MouseLastX <= xposQ2))
                            CancelCoach()
                        Else
                            Count=Count+1
                        Endif
                    Endif
                Endif
            Else
```

```
                Count=Count+1
            Endif
        Endif
    Else
        If(accel[0] <> 0)
            If(Filter(&accel;Key;1))
                If(aclpnt[Element] = 1)
                    If(aclpnt[Element])
                        SHOWCODE(RestoreScreen!)
                    Endif
                    Type(ntoc(Key))
                Endif
            Else
                If(Key <> -8160)
                    Type(ntoc(Key))
                Endif
            Endif
        Else
            If(Key <> -8160)
                Type(ntoc(Key))
            Endif
        Endif
        If(Key = -8182 or Key = -8183)
            If(?Dialog = info[2])
                Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
            Endif

            //*******************************************
            //  The next command is a remedy for a bug
            //*******************************************

            If(?DialogControl = info[1] and info[10])
                PosCharNext
            Endif
            //*******************************************
        Endif
    Endif
Endif
If(Key = -8158)
    Key="Hint"
    Break
Endif
If(Key = -8050 and xposS1 <> 0)
    Key="Show"
    Break
Endif
If(Count > 1)
```

```
            Result=MessageBox(info[8];&helpmsg;1)
            Count=0
        Endif
    EndWhile
    Cancel(Off!)
    CancelMsg=1
    Return(Key)
ENDFUNC
```

```
//*********************************************
//
//    FUNCTION: LstBxControl
//
//*********************************************
FUNCTION LstBxControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;&accel;&aclpnt;&tbox;&helpmsg)
        Global(Element)
        If(SaveScrn=0 and info[9])
            SHOWCODE(SaveScreen!)
            SaveScrn=1
        Endif
        Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
//***************************
// this is a bug fix
//***********************
If(info[10] = 2)
        PosLineDown
        PosLineUp
EndIf
//***********************
//************************
//***************************
// this is a bug fix
//***********************
If(info[10] = 3)
        PosLineUp
        PosLineDown
EndIf
//***********************
//***********************
        CancelMsg=0
        Cancel(On!)
        OnCancel Call(CancelCoach)

        Look(Key)
        While(Key <> 0)
            Look(Key)
        EndWhile

        Count=0
        While(?DialogControl = info[1] and ?Dialog = info[2])
            Char(Key)
            If(Key = -768)
                If(?MouseLeft and XYFilter(&x1;&x2;&y1;&y2))
                    Type(ntoc(Key))
                    While(?MouseLeft)
```

```
        EndWhile
        If(hotpnt[Element] = 2)
            Wait(5)
            If(?MouseLeftDouble)
                SHOWCODE(RestoreScreen!)
                HardReturn
                If(?DialogControl = info[1] and ?Dialog = info[2])
                    SHOWCODE(SaveScreen!)
                    SaveScrn=1
                    Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
                Endif
            Endif
        Endif
        If(hotpnt[Element] = 1)
            SHOWCODE(RestoreScreen!)
        Endif
        Type(ntoc(hotkey[Element]))
        If(hotpnt[Element] = 0)
            Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
        Endif
    Else
        If(?MouseLastY = (yposS1 + ScrnMode))
            If((?MouseLastX >= xposS1) and (?MouseLastX <= xposS2))
                Key="Show"
                Break
            Else
                If((?MouseLastX >= xposH1) and (?MouseLastX <= xposH2))
                    Key="Hint"
                    Break
                Else
                    If((?MouseLastX >= xposQ1) and (?MouseLastX <= xposQ2))
                        CancelCoach()
                    Else
                        Count=Count+1
                    Endif
                Endif
            Endif
        Else
            Count=Count+1
        Endif
    Endif
Else
    If(Key = -8182 or Key = -8166 or Key = -8169 or
        Key = -8103 or Key = -8102 or Key = -8184 or
        Key = -8183 or Key = -8098)
        // Enter, Dwn, Up
```

```
                // PgUp, PgDwn, Home
                // Tab, Shft+Tab
                If(Key = -8182 and Info[9])
                    SHOWCODE(RestoreScreen!)
                Else
                    Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
                Endif
                Type(ntoc(Key))
            Else
                If(Filter(&accel;Key;1))
                    If(aclpnt[Element])
                        SHOWCODE(RestoreScreen!)
                        Type(ntoc(Key))
                    Else
                        Type(ntoc(Key))
                        Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
                    Endif
                Else
                    Count=Count+1
                Endif
            Endif
        Endif
        If(Key = -8158)
            Key="Hint"
            Break
        Endif
        If(Key = -8050 and xposS1 <> 0)
            Key="Show"
            Break
        Endif
        If(Count > 1)
            Result=MessageBox(info[8];&helpmsg;1)
            Count=0
        Endif
    EndWhile
    Cancel(Off!)
    CancelMsg=1
    Return(Key)
ENDFUNC
```

```
//*********************************************
//
//    FUNCTION: InvalidControl
//
//*********************************************
FUNCTION InvalidControl(&info;&x1;&x2;&y1;&y2;&hotkey;&hotpnt;&accel;&aclpnt;&tbox;&helpmsg;
         &allow)
      Global(Element)
      If(SaveScrn=0 and info[9])
          SHOWCODE(SaveScreen!)
          SaveScrn=1
      Endif

      Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)

      CancelMsg=0
      Cancel(On!)
      OnCancel Call(CancelCoach)
      Look(Key)
      While(Key <> 0)
          Look(Key)
      EndWhile


      Result=0 Count=0
      While(1)
          Char(Key)
          If(Key = -768)
              If(?MouseLeft and XYFilter(&x1;&x2;&y1;&y2))
                  Type(ntoc(Key))
                  While(?MouseLeft)
                  EndWhile
                  If(hotpnt[Element] = 2)
                      Wait(5)
                      If(?MouseLeftDouble)
                          SHOWCODE(RestoreScreen!)
                          HardReturn
                      Endif
                  Endif
                  If(hotpnt[Element] = 1)
                      SHOWCODE(RestoreScreen!)
                  Endif
                  Type(ntoc(hotkey[Element]))
                  If(hotpnt[Element] = 0)
                      Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
                  Endif
```

```
                Result=2        // Lost control due to mouse click
                Break
          Else
            If(?MouseLastY = (yposS1 + ScrnMode))

                If((?MouseLastX >= xposS1) and (?MouseLastX <= xposS2))
                    Result="Show"
                    Break
                Else
                    If((?MouseLastX >= xposH1) and (?MouseLastX <= xposH2))
                        Result="Hint"
                        Break
                    Else
                        If((?MouseLastX >= xposQ1) and (?MouseLastX <= xposQ2))
                            CancelCoach()
                        Else
                            Count=Count+1
                        Endif
                    Endif
                Endif
            Else
                Count=Count+1
            Endif
          Endif
    Else
        If(Key = -8183 or Key = -8098 or Key = -8167 or Key = -8168)
            // Tab, Shft+Tab, Left, Right
            Type(ntoc(Key))
            If(Filter(&allow;0;0))
                Result=1        // Lost control due to Tab key
                Break
            Else
                Result=PostIt(info[4];&tbox;info[5];info[6]+(MsgAdj-ScrnMode);0;info[7];0)
            Endif
        Else
            If((Key = -8166 or Key = -8169) and (info[3] = 1))
                // Up, Down
                Type(ntoc(Key))
                If(Filter(&allow;0;0))
                    Result=1        // Lost control due to Tab key
                    Break
                Endif
            Else
                If(Filter(&accel;Key;1))
                    If(aclpnt[Element])
                        SHOWCODE(RestoreScreen!)
```

```
                Endif
                Type(ntoc(Key))
                Break                  // Lost control due to an accelerator key
            Else
                Count=Count+1
            Endif
        Endif
    Endif
Endif
If(Key = -8158)
    Result="Hint"
    Break
Endif
If(Key = -8050 and xposS1 <> 0)
    Result="Show"
    Break
Endif
If(Count > 1)
    Result=MessageBox(info[8];&helpmsg;1)
    Count=0
Endif
EndWhile
Cancel(Off!)
CancelMsg=1
Return(Result)
ENDFUNC
```

```
//*********************************************
//
//   FUNCTION: OpenDocument
//
//*********************************************
FUNCTION OpenDocument(&tbox)
        Result=0
        Display(On!)
        If(?DocBlank)
           If(tbox[1] = -1)
               tbox={    "The document screen is blank.  Would you";
                         "like to open a file?";
                         "";
                      }
           Endif
           Result=MessageBox(DefTitle;&tbox;3)
           If(Result = 1)
              Repeat
                 DlgInput(On!)
                 FileOpenDlg
                 tbox={    "► Type the filename to open.";
                           "  -or-";
                           "► Press [Bold On]F5[Bold Off] for File Manager.";
                        }
                 Result=PostIt(DefTitle;&tbox;-99;18+(MsgAdj-ScrnMode);0;0;0)
                 PosCharNext
                 PosCharPrev
                 DlgInput(Off!)
                 DisplayRewrite
                 If(?DocBlank = 0)
                    tbox={    "Is this the document that you want?";
                              "";
                          }
                    Result=MessageBox(DefTitle;&tbox;3)
                    If(Result = 2)
                       ClearDoc
                    Endif
                 Else
                    tbox={    "A document has not been opened.";
                              "";
                          }
                    Result=MessageBox(DefTitle;&tbox;1)
                    Result=1
                 Endif
              Until(Result = 1)
           Else
```

```
                Result=-1
            Endif
        Endif
        Return(Result)
ENDFUNC
```

```
//*********************************************
//
//   FUNCTION: XYFilter
//
//*********************************************
FUNCTION XYFilter(&x1;&x2;&y1;&y2)
        Result=0
        ForNext(x;1;x1[0])
            If((?MouseLastX >= x1[x] and ?MouseLastX <= x2[x]) and
            (?MouseLastY >= y1[x]+MsgAdj and ?MouseLastY <= y2[x]+MsgAdj))
                Result=x
                Element=x
                Break
            Endif
        Endfor
        Return(Result)
ENDFUNC
```

```
//*********************************************
//
//   FUNCTION: Filter
//
//*********************************************
FUNCTION Filter(&array;Key;Accel)
        Result=0
        ForNext(x;1;array[0])
            If(Accel = 1)
                If(Key = array[x] or Key = array[x] - 32)
                    Result=x
                    Element=x
                    Break
                Endif
            Else
                If(Accel = 2)
                    If(Key = array[x])
                        Result=x
                        Element=x
                        Break
                    Endif
                Else
                    If(?DialogControl = array[x])
                        Result=x
                        Element=x
                        Break
                    Endif
                Endif
            Endif
        Endfor
        Return(Result)
ENDFUNC
```

```
//********************************************
//
//    FUNCTION: CodeFilter
//
//********************************************
FUNCTION CodeFilter(&array;Code)
    Result=0
    ForNext(x;1;array[0])
        If(code)
            If(Code=array[x])
                Result=x
                Element=x
                Break
            Endif
        Endif
    Endfor
    Return(Result)
ENDFUNC
```

```
//*********************************************
//
//    FUNCTION: KeyFilter
//
//*********************************************
FUNCTION KeyFilter(&array;Key;&brk)
    Result=0
    ForNext(x;1;array[0])
        If(Key=array[x] or Key = array[x] - 32)
            If(brk[x] = 1)
                Result=2
            Else
                Result=1
            Endif
            Break
        Endif
    Endfor
    Return(Result)
ENDFUNC
```

```
//**********************************************
//
//    FUNCTION: DlgFilter
//
//**********************************************
FUNCTION DlgFilter(&array;&brk)
    Result=0
    ForNext(x;1;array[0])
        If(?DialogControl = array[x])
            If(brk[x] = 1)
                Result=2
            Else
                Result=1
            Endif
            Break
        Endif
    Endfor
    Return(Result)
ENDFUNC
```

```
//*******************************************
//
//   FUNCTION: DlgMessage
//
//*******************************************
FUNCTION DlgMessage()
    Switch(?ScreenHigh)

    CaseOf 24:
        If(?ScreenWide > 80)
            support={ "";
                            "Coaches are not supported in";
                            (?ScreenWide+1)+"x"+(?ScreenHigh+1)+" column screen mode.";
                            "";
                            "Please change your settings to";
                            "80x25 or 80x50 column screen mode";
                            "then restart the coach.";
                            "";
                    }
            Void=MessageBox("Coach";&support;1)
            QuitCoach()
        Endif
        Result=0

    CaseOf 49:
        If(?ScreenWide > 80)
            support={ "";
                            "Coaches are not supported in";
                            (?ScreenWide+1)+"x"+(?ScreenHigh+1)+" column screen mode.";
                            "";
                            "Please change your settings to";
                            "80x25 or 80x50 column screen mode";
                            "then restart the coach.";
                            "";
                    }
            Void=MessageBox("Coach";&support;1)
            QuitCoach()
        Endif
        Result=12

    DEFAULT:
        Beep
        If(ColorSet = 1)
            support={ "";
                            "Coaches are not supported in";
                            "80x"+(?ScreenHigh+1)+" line screen mode.";
```

```
                            "";
                            "Please change your settings to";
                            "80x25 or 80x50 line screen mode";
                            "then restart the coach.";
                            "";
                    }
        Else
            If(?ScreenHigh = 35)
                support={  "";
                            "Coaches are not supported in";
                            "1024x768 graphics screen mode.";
                            "";
                            "Please change your settings to";
                            "640x480 screen mode then";
                            "restart the coach.";
                            "";
                    }
        Else
            support={  "";
                        "Coaches are not supported in";
                        "800x600 graphics screen mode.";
                        "";
                        "Please change your settings to";
                        "640x480 screen mode then";
                        "restart the coach.";
                        "";
                    }
            Endif
        Endif
        Void=MessageBox("Coach";&support;1)
        QuitCoach()

    ENDSwitch
    Return(Result)
ENDFUNC
```

```
//*********************************************
//
//    FUNCTION: Welcome
//
//*********************************************
FUNCTION Welcome(Title;&tbox)
    w=StrLen(tbox[1])
    If(w < 30)
        w=30
    Endif

    tst=StrLen(Title)
    If(tst > w)
        w=tst
    Endif
    ForNext(x;2;tbox[0])
        tst=StrLen(tbox[x])
        If(tst > w)
            w=tst               // w = width of inside of box
        Endif
    Endfor
    h=tbox[0]                   // h = height of inside of box
    w=w+4 h=h+4

    DlgCreate(Result;Title;DlgNoOk!+DlgNoCancel!;;;w;h)
    DlgControl(CtrlPushButton!;;"  Continue  ";;w-33;h-2)
    DlgControl(CtrlPushButton!;;" Quit...[Bold On]Esc[Bold Off] ";StyCancel!;w-17;h-2)
    ForNext(x;1;tbox[0])
        DlgControl(CtrlLabel!;;tbox[x];;2;x;w-1;1)
    Endfor
    DlgEnd

    Return(Result)
ENDFUNC
```

```
//*********************************************
//
//   FUNCTION: Hint
//
//*********************************************
FUNCTION Hint(&tbox;xpos;ypos;Buttons)
    w=StrLen(tbox[1])
    If(w < 30)
        w=30
    Endif

    ForNext(x;2;tbox[0])
        tst=StrLen(tbox[x])
        If(tst > w)
            w=tst           // w = width of inside of box
        Endif
    Endfor
    h=tbox[0]               // h = height of inside of box
    w=w+4 h=h+4

    If(Buttons = 1)
        Title="Hint"
    Else
        If(Buttons = 2)
            Title="Quick Tip"
        Else
            If(Buttons = 3)
                Title="Hint"
            Else
                Title="Quick Tip"
            Endif
        Endif
    Endif

    If(xpos = -99 and ypos = -99)
        DlgCreate(Result;Title;DlgNoOk!+DlgNoCancel!;
        ;;w;h)
    Else
        If(xpos <> -99 and ypos = -99)
            DlgCreate(Result;Title;DlgNoOk!+DlgNoCancel!;xpos;;
            w;h)
        Else
            If(xpos = -99 and ypos <> -99)
                DlgCreate(Result;Title;DlgNoOk!+DlgNoCancel!;;
                ypos+ScrnMode;w;h)
            Else
```

```
            DlgCreate(Result;Title;DlgNoOk!+DlgNoCancel!;
            xpos;ypos+ScrnMode;w;h)
        Endif
    Endif
Endif
If(Buttons = 1)
    DlgControl(CtrlPushButton!;;"~Return to Coach";;w-20;h-2)
    DlgControl(CtrlPushButton!;;"~Show Me";;w-31;h-2)
Else
    If(Buttons = 2)
        DlgControl(CtrlPushButton!;;"~Continue ";;w-14;h-2)
        DlgControl(CtrlPushButton!;;"~Show Me";;w-25;h-2)
    Else
        If(Buttons = 3)
            DlgControl(CtrlPushButton!;;"~Return to Coach";;w-20;h-2)
        Else
            DlgControl(CtrlPushButton!;;"~Continue ";;w-14;h-2)
        Endif
    Endif
Endif
ForNext(x;1;tbox[0])
    DlgControl(CtrlLabel!;;tbox[x];;2;x;w-1;1)
Endfor
DlgEnd

//*******************************************
//   The next command is a remedy for a bug
//*******************************************

    If(Exists(BugFix))
        PosCharNext
        PosCharPrevious
        DISCARD(BugFix)
    Endif

//*******************************************
//*******************************************


    Return(Result)
ENDFUNC
```

```
//*********************************************
//
//   FUNCTION: Overview
//
//*********************************************
FUNCTION Overview(Title;&tbox;Buttons)
    w=StrLen(tbox[1])
    If(w < 30)
        w=30
    Endif

    tst=StrLen(Title)
    If(tst > w)
        w=tst
    Endif
    ForNext(x;2;tbox[0])
        tst=StrLen(tbox[x])
        If(tst > w)
            w=tst           // w = width of inside of box
        Endif
    Endfor
    h=tbox[0]               // h = height of inside of box
    w=w+4 h=h+4

    DlgCreate(Result;Title;DlgNoOk!+DlgNoCancel!;;;w;h)
    DlgControl(CtrlPushButton!;;" Prev ";;w-33;h-2)
    DlgControl(CtrlPushButton!;;" Next ";;w-24;h-2)
    DlgControl(CtrlPushButton!;;"  Cancel  ";StyCancel!;w-15;h-2)
    ForNext(x;1;tbox[0])
        DlgControl(CtrlLabel!;;tbox[x];;2;x;w-1;1)
    Endfor
    DlgEnd

    Return(Result)
ENDFUNC
```