



```
Loop Until (10 > Len(tmp_str))
```

```
Call OutputArray(Array_in(), 0, val_row, array_str, "Temp Sort Report File")
```

```
Call SortArray(Array_in(), Array_out(), val_row)
```

```
Call OutputArray(Array_out(), 0, val_row, array_str1, "Order Issues Report File")
```

```
cmdSpreadArray.Visible = False
```

```
cmdOutputFileSpec.Visible = True
```

```
End Sub
```

```
Public Sub Form_Load()
```

```
End Sub
```

```
Private Sub Form_Activate()
```

```
InputFileSpec = ""
```

```
OutputFileSpec = "A:\CIS-14A FILES\Final Project Archive\Final Project\CapGains Report to 02-26-04.csv"
```

```
date_start = "": date_end = ""
```

```
cmdRunInSteps.Visible = False
```

```
cmdCompleteRun.Visible = False
```

```
cmdOutputFileSpec.Visible = False
```

```
cmdPrintReport.Visible = False
```

```
cmdSpreadArray.Visible = False
```

```
cmdCalcBefore.Visible = False
```

```
cmdCalcDuring.Visible = False
```

```
cmdSumTax.Visible = False
```

```
cmdInputFilespec.Visible = True
```

```
cmdHelpClose.Visible = False
```

```
cmdHelp.Visible = True
```

```
cmdReprocessArray.Visible = False
```

```
lblCopyright.Visible = True
```

```
lblCopyright.Caption = Chr(169) & "2004 Ron Selman"
```

```
lblTitlePictureBox.Font.Size = 19
```

```
lblTitlePictureBox.Caption = "Program Status Log"
```

```
picFileSpec.AutoRedraw = True
```

```
picFileSpec.Cls
```

```
picFileSpec.Print "The program is starting."
```

```
process_log = "The program is starting." & Chr(13) & Chr(10)
```

```
End Sub
```

```
Public Sub BuildArray(in_array() As String, v_row As Integer, f_name As String)
```

```
Dim i As Integer, s As String 'Dim temp variables
```

```
i = 0: s = "" 'Init temp variables
```

```
Open f_name For Input As #1 'Open *.csv file first time
```

```
Do While Not EOF(1) 'Find out how many lines are in *.csv file.
```

```
Line Input #1, s 'Toss this string.
```

```
i = i + 1 'Accumulate count of the number of lines.
```

```
Loop
```

```
v_row = i 'assign # of rows for an index for use in array
```

```
Close #1 'Close file so it can be opened at start.
```

```
in_array(0) = Str(v_row) 'Place the number of lines in the first array element. ED NOTE: Remove line
```

```
Open f_name For Input As #1 'Open *.csv file second time
```

```
For i = 1 To v_row Step 1 'Place each line from file into the array elements.
```

```
Line Input #1, in_array(i)
```

```
Next i
```

```
If Not (EOF(1)) Then 'Check end of file was found, process error if was not EOF.
```

```
picFileSpec.Print "File: " & f_name & " End of File not Found, File Error!"
```

```
Else
```

```
picFileSpec.Print "Opening input filename: " & f_name
```

```
End If
```

```
If in_array(1) <> "Symbol,Quantity,Price,Action,TradeDate,Principal,Commission,SECFees,NetAmount,AccountType,Memo" Then
```

```
picFileSpec.Print "Input is not proper Equities Trade *.csv file!" 'Process error if found
```

```
Else
```

```
picFileSpec.Print "Input file: " & f_name & " is a proper Equities Trade *.csv file." 'Proper file was found.
```

```
End If
```

```
Close #1 'Close the file, data is now in array.
```

```
cmdCompleteRun.Visible = True
```

```
cmdRunInSteps.Visible = True
End Sub
```

```
Public Sub cmdCompleteRun_Click()
    Call cmdHelpClose_Click
    cmdRunInSteps.Visible = False
    cmdCompleteRun.Visible = False
    date_start = InputBox("Please, enter a date: [E.G. mm/dd/yyyy]", "Enter the first date to include in the calculations")
    date_end = InputBox("Please, enter a date: [E.G. mm/dd/yyyy]", "Enter the last date to include in the calculations")

    Call SortArray(Array_in(), Array_out(), val_row)

    Call SpreadArray(Array_out(), T_array(), val_row)

    cmdOutputFileSpec.Visible = True

    Call CalcBefore(T_array(), 1, val_row, date_start)

    Call CalcDuring(T_array(), 1, val_row, date_start, date_end)

    Call copyArrayToArray(T_array(), U_array(), 5, 0, val_row)

    Call SumTax(U_array(), 6, val_row)

    Call OutputArray(U_array(), 0, val_row, array_str, "Report File")

End Sub
```

```
Private Sub cmdRunInSteps_Click()
    'The raw *.csv file has been loaded
    'An initial array has been loaded
    'The array has been sorted for issues
    'A space has been placed between issues and the number of issues inserted.

    Call cmdHelpClose_Click

    cmdCompleteRun.Visible = False

    date_start = InputBox("Please, enter a date: [E.G. mm/dd/yyyy]", "Enter the first date to include in the calculations")
    date_end = InputBox("Please, enter a date: [E.G. mm/dd/yyyy]", "Enter the last date to include in the calculations")

    Call SortArray(Array_in(), Array_out(), val_row)
    Call OutputArray(Array_out(), 0, val_row, array_str, "Order Issues Report File")

    cmdOutputFileSpec.Visible = True

    cmdSpreadArray.Visible = True
    cmdRunInSteps.Visible = False
    cmdReprocessArray.Visible = True

End Sub
```

```
Private Sub cmdSpreadArray_Click()

    Call SpreadArray(Array_out(), T_array(), val_row)
    Call OutputArray(T_array(), 0, val_row, array_str, "Spread Array Report File")
    cmdOutputFileSpec.Visible = True
    cmdSpreadArray.Visible = False
    cmdCalcBefore.Visible = True
    cmdReprocessArray.Visible = False

End Sub
```

```
Private Sub cmdCalcBefore_Click()
    cmdSpreadArray.Visible = False
    Call CalcBefore(T_array(), 1, val_row, date_start)
    Call OutputArray(T_array(), 0, val_row, array_str, "Calculate Before Report File")
    cmdOutputFileSpec.Visible = True
    cmdCalcBefore.Visible = False
    cmdCalcDuring.Visible = True
    cmdReprocessArray.Visible = False

End Sub
```

```

Private Sub cmdCalcDuring_Click()
    cmdCalcBefore.Visible = False
    Call CalcDuring(T_array(), 1, val_row, date_start, date_end)
    Call OutputArray(T_array(), 0, val_row, array_str, "Calculate During Report File")
    Call copyArrayToArray(T_array(), U_array(), 5, 0, val_row)
    cmdOutputFileSpec.Visible = True
    cmdCalcDuring.Visible = False
    cmdSumTax.Visible = True
    cmdReprocessArray.Visible = False
End Sub

Private Sub cmdSumTax_Click()
    cmdCalcDuring.Visible = False
    Call SumTax(U_array(), 6, val_row)
    Call OutputArray(U_array(), 0, val_row, array_str, "Calculate Tax Report File")
    cmdOutputFileSpec.Visible = True
    cmdSumTax.Visible = False
    cmdReprocessArray.Visible = False
End Sub

Public Sub SumTax(in_array() As String, start_for As Integer, end_for As Integer)
    'The array has been processed for transactions before the date range and during the date range.
    'Info from after the date range was never calculated as it is not needed.
    'All relevant information to calculate such things as loss, profit, and tax due is in the
    'comment string for each issue.  Open issues and bankrupt issues that never closed still remain.
    'These remnants can be cleared if desired and the SumTax() subroutine or equivalent will be run again.

    Dim i As Integer, j As Integer, k As Integer, l As Integer, m As Integer
    Dim tmp_str As String
    Dim before_shares As Single, open_remaining_shares As Single, p_total_profit_loss As Currency, total_profit_loss As Currency
    Dim taxable_amount As Currency, remnant_shares As Single, acc_remnant_shares As Single, currency_var As Currency
    before_shares = 0: open_remaining_shares = 0: p_total_profit_loss = 0: total_profit_loss = 0
    taxable_amount = 0: remnant_shares = 0: acc_remnant_shares = 0

    'We look at the comment string elements of the array only.

    'The result is placed at the beginning of the array.

    i = start_for
    Do
        j = xtract_num_issues(in_array(), i)

        before_shares = xtractNum(in_array(), i, "before_shares=")
        open_remaining_shares = xtractNum(in_array(), i, "remaining_shares=")
        p_total_profit_loss = xtractNum(in_array(), i, "before_cost=")
        total_profit_loss = xtractNum(in_array(), i, "profit_or_loss=")

        'There are no shares remaining from before the date period.
        If before_shares = 0 Then
            taxable_amount = taxable_amount + total_profit_loss 'Tally toward the date period taxable_amount.
            in_array(i) = in_array(i) & ", Taxable=" & total_profit_loss
        End If

        'There are shares remaining from before the time period.
        'If these shares are unsold during the time period we don't care.
        'If they are sold during the date period they must be taxed.
        If before_shares > 0 Then
            If (before_shares + open_remaining_shares = 0) Then
                taxable_amount = taxable_amount + total_profit_loss + p_total_profit_loss
                in_array(i) = in_array(i) & ", Taxable=" & total_profit_loss + p_total_profit_loss
            End If

            'If more shares have been sold (or buy short) than found in the account, then the file has not been reconciled.
            If (before_shares + open_remaining_shares < 0) Then
                remnant_shares = before_shares + open_remaining_shares
                in_array(i) = in_array(i) & ", Remnants=" & remnant_shares 'Mark the issue.
                acc_remnant_shares = acc_remnant_shares + Abs(remnant_shares) 'Tally the number of remnants.
            End If
        End If

        'If there are shares from before the time period, but only some of them are sold during the time period.
    
```

```
i = i + j + 1
```

```
Loop Until (i >= end_for)
```

```
'Each issue has had the remaining shares and costs calculated and placed in the comment line for later use.
```

```
'The sum total of profit_loss, and open shares is place in the first line of the array for view or processing.
```

```
in_array(0) = "Capital Gains Tax Calculator for Personal Equity Accounts Report"
```

```
in_array(1) = "Path and filename of input file is: " & InputFileSpec & ", Today's Date: " & Date & ", Time of Day: " & Time
```

```
in_array(2) = "Tax calculation time period is: Start Date= " & date_start & " to End Date= " & date_end
```

```
in_array(3) = "File processing error information: Open Remaining Shares= " & Str(open_remaining_shares) & ", Accumulated Remnants Shares= " & Str(acc_remnant_shares)
```

```
in_array(4) = "Taxable Amount= " & FormatCurrency(taxable_amount, 2) & ", Fed Tax Due @ " & FormatPercent(ShortTermTaxRate, 1) & " is " & FormatCurrency(ShortTermTaxRate * taxable_amount, 2)
```

```
End Sub
```

```
Public Sub CalcBefore(in_array() As String, start_for As Integer, end_for As Integer, d_lo As String)
```

```
'Looks through the entire array up to "d_lo" value to calculate cap gains tax credit due.
```

```
'Places result in the notes row now marked Calc'ed 'name of equity', 'number of occurrences' for each group of issues.
```

```
Dim i As Integer, j As Integer, k As Integer, l As Integer, m As Integer
```

```
Dim tmp_str As String, pre_remaining_shares As Single, pre_profit_loss As Single
```

```
'You must start at the beginning of each issue section to do the average cost basis processing correctly.
```

```
i = start_for
```

```
Do
```

```
  j = Val(Mid(in_array(i), InStr(in_array(i), ",") + 1))
```

```
  k = i + j
```

```
  For l = k To (i + 1) Step -1
```

```
    If ((InStr(in_array(l), "Buy") <> 0) And (0 = InStr(in_array(l), "Short"))) Then
```

```
      If (beforeDate(in_array(), l, d_lo)) Then
```

```
        pre_remaining_shares = pre_remaining_shares + xtract_num_shares(in_array(), l)
```

```
        pre_profit_loss = pre_profit_loss - xtract_principle(in_array(), l)
```

```
      End If
```

```
    End If
```

```
    If ((InStr(in_array(l), "Sell") <> 0) And (0 = InStr(in_array(l), "Short"))) Then
```

```
      If (beforeDate(in_array(), l, d_lo)) Then
```

```
        pre_remaining_shares = pre_remaining_shares - xtract_num_shares(in_array(), l)
```

```
        pre_profit_loss = pre_profit_loss + xtract_principle(in_array(), l)
```

```
      End If
```

```
    End If
```

```
    If ((InStr(in_array(l), "Sell") <> 0) And (0 <> InStr(in_array(l), "Short"))) Then
```

```
      If (beforeDate(in_array(), l, d_lo)) Then
```

```
        pre_remaining_shares = pre_remaining_shares + xtract_num_shares(in_array(), l)
```

```
        pre_profit_loss = pre_profit_loss - xtract_principle(in_array(), l)
```

```
      End If
```

```
    End If
```

```
    If ((InStr(in_array(l), "Buy") <> 0) And (0 <> InStr(in_array(l), "Short"))) Then
```

```
      If (beforeDate(in_array(), l, d_lo)) Then
```

```
        pre_remaining_shares = pre_remaining_shares - xtract_num_shares(in_array(), l)
```

```
        pre_profit_loss = pre_profit_loss + xtract_principle(in_array(), l)
```

```
      End If
```

```
    End If
```

```
  Next l
```

```
  in_array(1) = in_array(1) & ", before_shares= " & Str(pre_remaining_shares) & ", before_cost= " & Str(pre_profit_loss)
```

```
  i = i + j + 1
```

```
  pre_profit_loss = 0: pre_remaining_shares = 0
```

```
Loop Until (i >= end_for)
```

```
'Each issue has had the remaining shares and costs calculated and placed in the comment line for later use.
```

```
End Sub
```

```
Public Sub CalcDuring(in_array() As String, start_for As Integer, end_for As Integer, d_lo As String, d_hi As String)
```

```
Dim i As Integer, j As Integer, k As Integer, l As Integer, m As Integer
```

```
Dim tmp_str As String, remaining_shares As Single, profit_loss As Single
```

```
'You must start at the beginning of each issue section to do the processing correctly.
```

```

i = start_for
Do
  j = xtract_num_issues(in_array(), i)
  k = i + j
  For l = k To (i + 1) Step -1
    '
    If ((InStr(in_array(l), "Buy") <> 0) And (0 = InStr(in_array(l), "Short"))) Then
      If (Not beforeDate(in_array(), l, d_lo)) And (Not afterDate(in_array(), l, d_hi)) Then
        remaining_shares = remaining_shares + xtract_num_shares(in_array(), l)
        profit_loss = profit_loss - xtract_principle(in_array(), l)
      End If
    End If

    If ((InStr(in_array(l), "Sell") <> 0) And (0 = InStr(in_array(l), "Short"))) Then
      If (Not beforeDate(in_array(), l, d_lo)) And (Not afterDate(in_array(), l, d_hi)) Then
        remaining_shares = remaining_shares - xtract_num_shares(in_array(), l)
        profit_loss = profit_loss + xtract_principle(in_array(), l)
      End If
    End If

    If ((InStr(in_array(l), "Sell") <> 0) And (0 <> InStr(in_array(l), "Short"))) Then
      If (Not beforeDate(in_array(), l, d_lo)) And (Not afterDate(in_array(), l, d_hi)) Then
        remaining_shares = remaining_shares + xtract_num_shares(in_array(), l)
        profit_loss = profit_loss - xtract_principle(in_array(), l)
      End If
    End If

    If ((InStr(in_array(l), "Buy") <> 0) And (0 <> InStr(in_array(l), "Short"))) Then
      If (Not beforeDate(in_array(), l, d_lo)) And (Not afterDate(in_array(), l, d_hi)) Then
        remaining_shares = remaining_shares - xtract_num_shares(in_array(), l)
        profit_loss = profit_loss + xtract_principle(in_array(), l)
      End If
    End If

  Next l
  in_array(l) = in_array(l) & ", remaining_shares= " & Str(remaining_shares) & ", profit_or_loss= " & Str(profit_loss)
  i = i + j + 1
  profit_loss = 0: remaining_shares = 0

```

```

Loop Until (i >= end_for)
'Each issue has had the remaining shares and costs calculated and placed in the comment line for later use.

```

```

End Sub

```

```

Public Sub SpreadArray(in_array() As String, out_array() As String, v_row As Integer)
  'This Sub places an index array element between groups of
  'like equity issues in a new array. The index element has
  '"Calc'ed: 'issue name', 'number of appearances'"
  'Place the index element in front of the first entry for new array.
  'Read the first name, and check for additional same name issues.
  'If issue name is same then copy to new array.
  'When new name appears, then place a index array element in new array.

```

```

Dim i As Integer, j As Integer, k As Integer, tmp_str As String

```

```

i = 2: j = 2: k = 0: tmp_str = "": out_array(j) = ""

```

```

Do

```

```

  k = 1

```

```

  out_array(j) = in_array(i)

```

```

  tmp_str = Left(in_array(i), InStr(in_array(i), ","))

```

```

  Do While ((tmp_str = Left(in_array(i + 1), InStr(in_array(i + 1), ","))) And (i < v_row)) 'If the present and the next are the same, move

```

```

    i = i + 1: j = j + 1: k = k + 1

```

```

    out_array(j) = in_array(i)

```

```

  Loop

```

```

  out_array(j - k) = "Calc'ed: " & Mid(tmp_str, 7) & Str(k)

```

```

  i = i + 1: j = j + 2

```

```

Loop Until i > v_row

```

```

v_row = j - 1

```

```

' out_array(0) = v_row 'Place size of array in the first element.

```

```

End Sub

```

```

Public Sub SortArray(in_array() As String, out_array() As String, v_row As Integer)

```

```

'Separates the issues into groups per their appearance in the original file.
Dim i As Integer, j As Integer, k As Integer, l_str As String 'Dim temp variables
i = 0: k = 1: l_str = "" 'Init temp variables

For i = 2 To v_row
    'Check the in_array() entry is an equity and place it in the out_array().
    If l = InStr(in_array(i), "EQUITY") Then
        k = k + 1
        out_array(k) = in_array(i)
        l_str = Left(in_array(i), InStr(in_array(i), ","))
        in_array(i) = "Transferred"
    ElseIf in_array(i) <> "Transferred" Then
        picFileSpec.Print "Problem with entry! This was not an equity." & ", i =" & Str(i) & ", j =" & Str(j)
        picFileSpec.Print in_array(i)
        'Expand the error processing here. Make user prompt message.
    End If
    'Now search the rest of the in_array() for additional entries. Move and mark Transferred
    For j = 3 To v_row
        If (l_str = Left(in_array(j), InStr(in_array(j), ","))) Then
            k = k + 1
            out_array(k) = in_array(j)
            in_array(j) = "Transferred"
        End If
    Next j
Next i
' out_array(0) = k
picFileSpec.Print "The array is sorted"
End Sub

Public Sub OutputArrayReport(Array_var() As String, start_for As Integer, end_for As Integer, lo_d As String, hi_d As String)
    Dim k As Integer, tmp_str As String, ArrayAsString As String
    ArrayAsString = ""
    For k = start_for To end_for
        tmp_str = Array_var(k)
        ArrayAsString = ArrayAsString & Chr(13) & Chr(10) & tmp_str
    Next k
    txtTextBox.Text = ArrayAsString
End Sub

Public Sub OutputArray(Array_var() As String, start_for As Integer, end_for As Integer, ret_str As String, lbl_caption)
    Dim k As Integer, tmp_str As String, ArrayAsString As String
    ArrayAsString = ""
    lblTextBox.Font.Size = 19
    lblTextBox.Caption = lbl_caption
    For k = start_for To end_for
        tmp_str = Array_var(k)
        ArrayAsString = ArrayAsString & Chr(13) & Chr(10) & tmp_str
    Next k
    ArrayAsString = ArrayAsString & Chr(13) & Chr(10)
    txtTextBox.Font.Size = 8
    txtTextBox.Text = ArrayAsString
    ret_str = ArrayAsString
End Sub

Private Sub cmdExit_Click()
    End
End Sub

Public Sub PrintArray(Array_prt() As String, start_for As Integer, end_for As Integer)
    Dim k As Integer, tmp_str As String, ArrayAsString As String
    Printer.Font.Size = 7
    ArrayAsString = ""
    For k = start_for To end_for
        tmp_str = Array_prt(k)
        ArrayAsString = ArrayAsString & Chr(13) & Chr(10) & tmp_str
    Next k
    Printer.Print ArrayAsString
    Printer.EndDoc
End Sub

Public Function beforeDate(Array_var() As String, ele_var As Integer, before_date As String) As Boolean

```

```

Dim tmp_date As String, f_comma As Integer, s_comma As Integer
before_date = DateValue(before_date)
If (0 <> InStr(Array_var(ele_var), "Buy")) Then 'String position for Buy is different then Sell
    f_comma = InStr(Array_var(ele_var), "Buy") + 4
    tmp_date = Mid(Array_var(ele_var), f_comma)
    s_comma = InStr(tmp_date, ",") - 1
    tmp_date = DateValue(Mid(tmp_date, 1, s_comma))
End If
If (0 <> InStr(Array_var(ele_var), "Sell")) Then 'String position for Sell is different then Buy
    f_comma = InStr(Array_var(ele_var), "Sell") + 5
    tmp_date = Mid(Array_var(ele_var), f_comma)
    s_comma = InStr(tmp_date, ",") - 1
    tmp_date = DateValue(Mid(tmp_date, 1, s_comma))
End If

If Year(tmp_date) < Year(before_date) Then
    beforeDate = True
End If
If Year(tmp_date) > Year(before_date) Then
    beforeDate = False
End If
If (Year(tmp_date) = Year(before_date)) And (Month(tmp_date) < Month(before_date)) Then
    beforeDate = True
End If
If (Year(tmp_date) = Year(before_date)) And (Month(tmp_date) > Month(before_date)) Then
    beforeDate = False
End If
If (Year(tmp_date) = Year(before_date)) And (Month(tmp_date) = Month(before_date)) And (Day(tmp_date) < Day(before_date)) Then
    beforeDate = True
End If
If (Year(tmp_date) = Year(before_date)) And (Month(tmp_date) = Month(before_date)) And (Day(tmp_date) >= Day(before_date)) Then
    beforeDate = False
End If
End Function

```

```

Public Function afterDate(Array_var() As String, ele_var As Integer, after_date As String) As Boolean
Dim tmp_date As String, f_comma As Integer, s_comma As Integer
after_date = DateValue(after_date)
If (0 <> InStr(Array_var(ele_var), "Buy")) Then 'String position for Buy is different then Sell
    f_comma = InStr(Array_var(ele_var), "Buy") + 4
    tmp_date = Mid(Array_var(ele_var), f_comma)
    s_comma = InStr(tmp_date, ",") - 1
    tmp_date = Mid(tmp_date, 1, s_comma)
End If
If (0 <> InStr(Array_var(ele_var), "Sell")) Then 'String position for Sell is different then Buy
    f_comma = InStr(Array_var(ele_var), "Sell") + 5
    tmp_date = Mid(Array_var(ele_var), f_comma)
    s_comma = InStr(tmp_date, ",") - 1
    tmp_date = DateValue(Mid(tmp_date, 1, s_comma))
End If

If Year(tmp_date) > Year(after_date) Then
    afterDate = True
End If
If Year(tmp_date) < Year(after_date) Then
    afterDate = False
End If
If (Year(tmp_date) = Year(after_date)) And (Month(tmp_date) > Month(after_date)) Then
    afterDate = True
End If
If (Year(tmp_date) = Year(after_date)) And (Month(tmp_date) < Month(after_date)) Then
    afterDate = False
End If
If (Year(tmp_date) = Year(after_date)) And (Month(tmp_date) = Month(after_date)) And (Day(tmp_date) > Day(after_date)) Then
    afterDate = True
End If
If (Year(tmp_date) = Year(after_date)) And (Month(tmp_date) = Month(after_date)) And (Day(tmp_date) <= Day(after_date)) Then
    afterDate = False
End If
End Function

```



```

Public Function xtract_num_issues(Array_var() As String, ele_var As Integer) As Integer
    Dim f_comma As Single, s_commas As Single, tmp_str1 As String
    f_comma = InStr(Array_var(ele_var), ",")
    tmp_str1 = Mid(Array_var(ele_var), f_comma + 1) 'Get quantity of issue
    s_comma = InStr(tmp_str1, ",")
    xtract_num_issues = Val(Mid(tmp_str1, 1, (s_comma - 1)))
End Function

```

```

Public Function xtract_principle(Array_var() As String, ele_var As Integer) As Single
    Dim f_comma As Single, s_commas As Single, tmp_str1 As String
    f_comma = InStr(Array_var(ele_var), ",")
    tmp_str1 = Mid(Array_var(ele_var), f_comma + 1) 'Get quantity of issue

    f_comma = InStr(tmp_str1, ",")
    tmp_str1 = Mid(tmp_str1, f_comma + 1) 'Get quantity of issue

    f_comma = InStr(tmp_str1, ",")
    tmp_str1 = Mid(tmp_str1, f_comma + 1) 'Get quantity of issue

    f_comma = InStr(tmp_str1, ",")
    tmp_str1 = Mid(tmp_str1, f_comma + 1) 'Get quantity of issue

    f_comma = InStr(tmp_str1, ",")
    tmp_str1 = Mid(tmp_str1, f_comma + 1) 'Get quantity of issue

    f_comma = InStr(tmp_str1, ",")
    xtract_principle = Val(Mid(tmp_str1, 1, (f_comma - 1)))
End Function

```

```

Public Function xtract_num_shares(Array_var() As String, ele_var As Integer) As Single
    Dim f_comma As Single, s_commas As Single, tmp_str1 As String
    f_comma = InStr(Array_var(ele_var), ",")
    tmp_str1 = Mid(Array_var(ele_var), f_comma + 1) 'Get quantity of issue
    s_comma = InStr(tmp_str1, ",")
    xtract_num_shares = Val(Mid(tmp_str1, 1, (s_comma - 1)))
End Function

```

```

Public Function xtractNum(Array_var() As String, ele_var As Integer, key_string As String)
    Dim f_point As Single, s_point As Single, tmp_str1 As String
    f_point = InStr(Array_var(ele_var), key_string) + Len(key_string)
    tmp_str1 = Mid(Array_var(ele_var), f_point + 1) 'Get quantity of issue
    s_point = InStr(tmp_str1, ",")
    If s_point = 0 Then: s_point = Len(tmp_str1) + 1
    xtractNum = Val(Mid(tmp_str1, 1, (s_point - 1)))
End Function

```

```

Public Function xtract_o_num_shares(Array_var() As String, ele_var As Integer) As Integer
    Dim f_comma As Single, s_commas As Single, tmp_str1 As String
    f_comma = InStr(Array_var(ele_var), "=")
    tmp_str1 = Mid(Array_var(ele_var), f_comma + 1) 'Get quantity of issue
    s_comma = InStr(tmp_str1, ",")
    xtract_o_num_shares = Val(Mid(tmp_str1, 1, (s_comma - 1)))
End Function

```

```

Public Function xtract_t_profit_loss(Array_var() As String, ele_var As Integer) As Integer
    Dim f_comma As Single, s_commas As Single, tmp_str1 As String
    f_comma = InStr(Array_var(ele_var), "=")
    tmp_str1 = Mid(Array_var(ele_var), f_comma + 1) 'Get quantity of issue
    s_comma = InStr(tmp_str1, "=")
    xtract_t_profit = Val(Mid(tmp_str1, 1, (s_comma - 1)))
End Function

```

```

Public Sub initArrayToNull(Array_var_in() As String, start_var As Integer, end_var As Integer)
    Dim i As Integer
    For i = start_var To end_var 'Copy contents so original array is preserved.
        Array_var_in(i) = ""
    Next i
End Sub

```

```
Public Sub copyArrayToArray(Array_var_in() As String, Array_var_out() As String, offset_var As Integer, start_var As Integer, end_var As Integer)
    Dim i As Integer
    For i = start_var To end_var 'Copy contents so original array is preserved.
        Array_var_out(i + offset_var) = Array_var_in(i)
    Next i
    end_var = end_var + offset_var 'Changes end_var valut to include the offset value.
End Sub
```

```
Private Sub cmdAbout_Click()
    picFileSpec.Cls
    picFileSpec.Print "Capital Gains Tax Calculator for Personal Equity Accounts"
    picFileSpec.Print "Version 1.0, Rev X1"
    picFileSpec.Print "Release Date: 03/25/2004"
    picFileSpec.Print "Written by Ron Selman, " & Chr(169) & "2004 Ron Selman"
    picFileSpec.Print "This program was a final project for CIS-14A."
End Sub
```

```
Private Sub cmdReset_Click()
array_str = ""
process_log = ""
txtTextBox.Text = ""
```

```
Call initArrayToNull(Array_in(), 0, 500)
Call initArrayToNull(Array_out(), 0, 500)
Call initArrayToNull(T_array(), 0, 500)
Call initArrayToNull(C_array(), 0, 500)
Call initArrayToNull(U_array(), 0, 500)
Call Form_Activate
```

```
End Sub
```

```
Private Sub cmdHelp_Click()
lblCopyright.Visible = False
cmdHelp.Visible = False
cmdHelpClose.Visible = True
lblTextBox.Font.Size = 19
lblTextBox.Caption = "Help Screen"
txtTextBox.Font.Size = 11
```

```
help_file = "          Capital Gains Tax Calculator for Personal Brokerage Accounts." & Chr(13) & Chr(10) & Chr(13) & Chr(10) & _
"The Start Screen configures as program starts.  It will request an input file with the button:" & Chr(13) & Chr(10) & _
""""Enter an Input File Name""", you must LClick this button, then select a ""*.csv"" file with the proper format." & Chr(13) & Chr(10) & _
"E.G.: ""Cleaned_Sample.csv"", or ""Personal_Account1_not_reconciled.csv"" & Chr(13) & Chr(10) & Chr(13) & Chr(10) & _
"The data should be arranged with a specific format.  The data must be ordered as such:" & Chr(13) & Chr(10) & _
""""Symbol,Quantity,Price,Action,TradeDate,Principal,Commission,SECFees,NetAmount,AccountType,Memo""""
& Chr(13) & Chr(10) & Chr(13) & Chr(10) & "If you feel confident the inputted file is reconciled and ready to processed, LClick on the" & Chr(13) & Chr(10) & _
""""Process Completely and Display Report"" button.  If you're not familiar with the file or need to remove" & Chr(13) & Chr(10) & _
"open or failed issues then LClick the ""Run in Stages and View Steps"" button." & Chr(13) & Chr(10) & Chr(13) & Chr(10) & _
"In either case Input Boxes will appear requesting inclusive start and stop date information for the final report." & Chr(13) & Chr(10) & _
"Typical entries might be ""01/01/2003"" for a start date, and ""01/01/02004"" for an end date.  If the input file" & Chr(13) & Chr(10) & _
"has not been examined you might be better off entering an very early start date and a future end date.  This allows" & Chr(13) & Chr(10) & _
"observing the entire input file with Run in Stages and View Steps." & Chr(13) & Chr(10) & _
"The Process Completely and Display Report button will produce a report and place it in the Report Text Box." & Chr(13) & Chr(10) & _
"Several lines of report statistics proceed the processed input file data." & Chr(13) & Chr(10) & _
"The line: ""File processing error information: Open Remaining Shares= 0, Accumulated Remnants Shares= 0"" " & Chr(13) & Chr(10) & _
"should have 0 values.  The remnant issues can be observed by using the scroll bars to look through the " & Chr(13) & Chr(10) & _
"groups of issues in the report file." & Chr(13) & Chr(10) & Chr(13) & Chr(10) & _
""""After the Run in Stages and View Steps"" process is explained a brief description of the Report data will be given." & Chr(13) & Chr(10) & _
"The processing and calculation is broken down with ""Run in Stages and View Steps"" and several buttons appear."
```

```
txtTextBox.Text = help_file
End Sub
```

```
Private Sub cmdHelpClose_Click()
cmdHelpClose.Visible = False
cmdHelp.Visible = True
lblTextBox.Caption = ""
txtTextBox.Text = "" 'You could try to reload Report string
End Sub
```

```
Private Sub cmdInputFilespec_Click()
```

```
lblCopyright.Visible = False
dlgInFiles.Filter = "All Files (*.*)|*.*|Comma Delimited Files (*.csv)|*.txt"
' Specify default filter.
dlgInFiles.FilterIndex = 2

' Display the Open dialog box.
dlgInFiles.ShowOpen
InputFileSpec = dlgInFiles.FileName
cmdInputFileSpec.Visible = False

Call BuildArray(Array_in(), val_row, InputFileSpec)

End Sub

Private Sub cmdOutputFileSpec_Click()
    dlgOutFiles.Filter = "Save Files "
' Specify default filter.
dlgOutFiles.FilterIndex = 2

' Display the Save dialog box.
dlgOutFiles.ShowSave
OutputFileSpec = dlgOutFiles.FileName

Open dlgOutFiles.FileName For Output As #2

Dim i As Integer, j As Integer, tmp_str As String, tmp_str1 As String, CRLF1 As String

CRLF1 = Chr(13) & Chr(10)
tmp_str = array_str

Do While (Chr(13) = Left(tmp_str, 1) Or Chr(10) = Left(tmp_str, 1))
    tmp_str = Mid(tmp_str, 2)
Loop

Do
    j = InStr(tmp_str, CRLF1) + 1 'Find next CRLF

    tmp_str1 = Left(tmp_str, j) 'Get the line you want
    Print #2, Mid(tmp_str1, 1, InStr(tmp_str1, CRLF1)) 'Place in the file
    tmp_str = Mid(tmp_str, j + 1) 'Get all the string past this CRLF for later

Loop Until (10 > Len(tmp_str))

Close #2

End Sub
```