'HARD (includes medium and easy)

Sub Hard()

'Create variables for Open and Change. Could do for close too, but probably not necessary because if using current row, won't need stored value.

Dim OpenPrice As Double

Dim Change As Double

Dim PercentChange As Double

Dim Ticker As String

Dim Volume As Double

Dim InitialVolume As Double

Dim SummaryTableRow As Integer

Dim Lastrow As Double

Dim LastrowAdj As Double

Lastrow = Cells(Rows.Count, "A").End(xlUp).Row

LastrowAdj = Lastrow + 1

InitialVolume = 0

Volume = InitialVolume

SummaryTableRow = 2

For i = 2 To Lastrow

'If Ticker in current row is not the same as the ticker in previous row,Then take open from current row

If Cells(i, 1).Value <> Cells(i - 1, 1).Value Then

OpenPrice = Cells(i, 3).Value

'Otherwise, keep the value of opening price the same

'Is the below needed?

End If

'Process for getting close price and change. If current row ticker is different from next row ticker, then current row close IS the closing price for the year.

'Change is close less open. Percent Change is change / open.

If Cells(i, 1).Value <> Cells(i + 1, 1).Value Then

Change = Cells(i, 6).Value - OpenPrice

If OpenPrice = 0 Then

PercentChange = 0

Else

PercentChange = Change / OpenPrice

End If

Ticker = Cells(i, 1).Value

Cells(SummaryTableRow, 12).Value = Ticker

Cells(SummaryTableRow, 13).Value = Change

Cells(SummaryTableRow, 14).Value = PercentChange

Cells(SummaryTableRow, 14).NumberFormat = "0.00%"

SummaryTableRow = SummaryTableRow + 1

End If

Next i

'We can use the code from Easy again. To do this, reset SummaryTableRow

SummaryTableRow = 2

For i = 3 To LastrowAdj

'We don't need to run the first row because volume is zero, and starting at 3 will prevent printing titles to summary table given how my if test is structured.

' See if ticker in current row matches ticker from previous row

If Cells(i, 1).Value = Cells(i - 1, 1).Value Then

' If ticker matches, add current day volume to stored volume total and move to next row

Volume = Volume + Cells(i, 7).Value

'If ticker does NOT match,

'Put prior ticker in Summary Table

Else

'Ticker = Cells(i - 1, 1).Value

'Cells(SummaryTableRow, 9).Value = Ticker

'(Commented out because the ticker is already in there)

'Put stored total volume for prior ticker in Summary table

Cells(SummaryTableRow, 15).Value = Volume

'Reset Summary Table Row

SummaryTableRow = SummaryTableRow + 1

'Reset stored volume total to current row volume

Volume = Cells(i, 7).Value

End If

Next i

'Create Variables to hold the Various Maxima

Dim MaxIncrease As Double

Dim MaxDecrease As Double

Dim MaxVolume As Double

'Create Variables to hold the Tickers associated with each maximum

Dim MITicker As String

Dim MDTicker As String

Dim MVTicker As String

'Probably not needed, but setting starting values to 0

MaxIncrease = 0

MaxDecrease = 0

MaxVolume = 0

For i = 2 To Lastrow

'Working on Summary Table Rows. May need to adjust for this, but for now, will assume simplicity of starting at row 2.

'Find Greatest % Increase, and store its ticker

If Cells(i, 14).Value > MaxIncrease Then

MaxIncrease = Cells(i, 14).Value

MITicker = Cells(i, 12).Value

End If

' Find Greatest % Decrease and store its ticker

If Cells(i, 14).Value < MaxDecrease Then

MaxDecrease = Cells(i, 14).Value

MDTicker = Cells(i, 12).Value

End If

' Find Max Volume and store its ticker

If Cells(i, 15).Value > MaxVolume Then

MaxVolume = Cells(i, 15).Value

MVTicker = Cells(i, 12).Value

End If

Next i

'Print Values from Last Loop with labels and tickers

'Lables

Cells(2, 17).Value = "Greatest % Increase"

Cells(3, 17).Value = "Greatest % Decrease"

Cells(4, 17).Value = "Maximum Volume"

'Tickers

Cells(2, 18).Value = MITicker

Cells(3, 18).Value = MDTicker

Cells(4, 18).Value = MVTicker

'Values

Cells(2, 19).Value = MaxIncrease

Cells(3, 19).Value = MaxDecrease

Cells(4, 19).Value = MaxVolume

'Put in all Column Headings

Cells(1, 12).Value = "Ticker"

Cells(1, 13).Value = "Change"

Cells(1, 14).Value = "% Change"

Cells(1, 15).Value = "Volume"

End Sub