Sub ModerateChallenge()

Dim total\_vol As Double

Dim ticker As String

Dim ticker\_counter, ticker\_open\_close\_counter As Double

Dim yearly\_open, yearly\_end As Double

For Each ws In Worksheets

total\_vol = 0

ticker\_counter = 2

ticker\_open\_close\_counter = 2

ws.Range("I1").Value = "Ticker"

ws.Range("J1").Value = "Yearly Change"

ws.Range("K1").Value = "Percent Change"

ws.Range("L1").Value = "Total Stock Volume"

For i = 2 To ws.Cells(Rows.Count, 1).End(xlUp).Row

total\_vol = total\_vol + ws.Cells(i, 7).Value

ticker = ws.Cells(i, 1).Value

yearly\_open = ws.Cells(ticker\_open\_close\_counter, 3)

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

yearly\_end = ws.Cells(i, 6)

ws.Cells(ticker\_counter, 9).Value = ticker

ws.Cells(ticker\_counter, 10).Value = yearly\_end - yearly\_open

If yearly\_open = 0 Then

ws.Cells(ticker\_counter, 11).Value = Null

Else

ws.Cells(ticker\_counter, 11).Value = (yearly\_end - yearly\_open) / yearly\_open

End If

ws.Cells(ticker\_counter, 12).Value = total\_vol

If ws.Cells(ticker\_counter, 10).Value > 0 Then

ws.Cells(ticker\_counter, 10).Interior.ColorIndex = 4

Else

ws.Cells(ticker\_counter, 10).Interior.ColorIndex = 3

End If

ws.Cells(ticker\_counter, 11).NumberFormat = "0.00%"

total\_vol = 0

ticker\_counter = ticker\_counter + 1

ticker\_open\_close\_counter = i + 1

End If

Next i

ws.Columns("J").AutoFit

ws.Columns("K").AutoFit

ws.Columns("L").AutoFit

Next ws

End Sub

Sub HardChallenge()

Call ModerateChallenge

For Each ws In Worksheets

ws.Range("O2") = "Greatest % Increase"

ws.Range("O3") = "Greatest % Decrease"

ws.Range("O4") = "Greatest Total Volume"

ws.Range("P1") = "Ticker"

ws.Range("Q1") = "Value"

Dim max, min As Double

Dim min\_row\_index, max\_row\_index, max\_total\_vol\_index As Integer

Dim max\_total\_vol As Double

max = 0

min = 0

max\_total\_vol = 0

For i = 2 To ws.Cells(Rows.Count, 9).End(xlUp).Row

If ws.Cells(i, 11) > max Then

max = ws.Cells(i, 11)

max\_row\_index = i

End If

If ws.Cells(i, 11) < min Then

min = ws.Cells(i, 11)

min\_row\_index = i

End If

If ws.Cells(i, 12) > max\_total\_vol Then

max\_total\_vol = ws.Cells(i, 12)

max\_total\_vol\_index = i

End If

Next i

ws.Range("P2") = ws.Cells(max\_row\_index, 9).Value

ws.Range("P3") = ws.Cells(min\_row\_index, 9).Value

ws.Range("P4") = ws.Cells(max\_total\_vol\_index, 9).Value

ws.Range("Q2") = max

ws.Range("Q3") = min

ws.Range("Q4") = max\_total\_vol

ws.Range("Q2").NumberFormat = "0.00%"

ws.Range("Q3").NumberFormat = "0.00%"

ws.Columns("O").AutoFit

ws.Columns("P").AutoFit

ws.Columns("Q").AutoFit

Next ws

End Sub

Sub ClearModerateChallenge()

For Each ws In Worksheets

ws.Columns("I:L").ClearContents

ws.Columns("I:L").ClearFormats

ws.Columns("I:L").UseStandardWidth = True

Next ws

End Sub

Sub ClearHardChallenge()

Call ClearModerateChallenge

For Each ws In Worksheets

ws.Columns("O:Q").ClearContents

ws.Columns("O:Q").ClearFormats

ws.Columns("O:Q").UseStandardWidth = True

Next ws

End Sub