- 65 Removals + 52 Additions

```
Sub AllStocksAnalysisRefactored()
    'Initialize variables for starting price and ending price
    Dim startTime As Single
    Dim endTime  As Single

    'Input box
    yearValue = InputBox("What year would you like to run the analysis on?")
    'Start clock
    startTime = Timer

    'Format the output sheet on All Stocks Analysis worksheet
    Worksheets("All Stocks Analysis").Activate
    Range("A1").Value = "All Stocks (" + yearValue + ")"

    'Create a header row
    Cells(3, 1).Value = "Ticker"
    Cells(3, 2).Value = "Total Daily Volume"
    Cells(3, 3).Value = "Return"



    'Initialize array of all tickers
    Dim tickers(11) As String
    tickers(0) = "AY"
    tickers(1) = "CSIQ"
    tickers(2) = "DQ"
    tickers(3) = "ENPH"
    tickers(4) = "FSLR"
    tickers(5) = "HASI"
    tickers(6) = "JKS"
    tickers(7) = "RUN"
    tickers(8) = "SEDG"
    tickers(9) = "SPWR"
    tickers(10) = "TERP"
    tickers(11) = "VSLR"

    'Activate data worksheet
    Sheets(yearValue).Activate

    'Get number of rows to count
    RowCount = Cells(Rows.Count, "A").End(xlUp).Row


    '1a) Create a ticker Index and set it equal to zero
    For i = 0 To 11
        tickerIndex = tickers(i)

    '1b)Create Output arrays
    Dim tickervolume As Long
    Dim tickerStartingPrices As Double
    Dim tickerEndingPrices As Double

    '2a)Initialize tickervolume equal zero
    tickervolume = 0
```

```
Sub AllStocksAnalysisRefactored2()
    'Initialize variables for starting price and ending price
    Dim startTime As Single
    Dim endTime  As Single

    'Input box
    yearValue = InputBox("What year would you like to run the analysis on?")
    'Start clock
    startTime = Timer

    'Format the output sheet on All Stocks Analysis worksheet
    Worksheets("All Stocks Analysis").Activate
    Range("A1").Value = "All Stocks (" + yearValue + ")"

    'Create a header row
    Cells(3, 1).Value = "Ticker"
    Cells(3, 2).Value = "Total Daily Volume"
    Cells(3, 3).Value = "Return"



    'Initialize array of all tickers
    Dim tickers(11) As String
    tickers(0) = "AY"
    tickers(1) = "CSIQ"
    tickers(2) = "DQ"
    tickers(3) = "ENPH"
    tickers(4) = "FSLR"
    tickers(5) = "HASI"
    tickers(6) = "JKS"
    tickers(7) = "RUN"
    tickers(8) = "SEDG"
    tickers(9) = "SPWR"
    tickers(10) = "TERP"
    tickers(11) = "VSLR"

    'Activate data worksheet
    Sheets(yearValue).Activate

    'Get number of rows to count
    RowCount = Cells(Rows.Count, "A").End(xlUp).Row

    '1a) Initialize and set tickerindex = 0
    tickerIndex = 0



    '1b)Create Output arrays
    Dim tickerVolumes(12) As Long
    Dim tickerStartingPrices(12) As Single
    Dim tickerEndingPrices(12) As Single

    '2a)Initialize tickervolume equal zero
    For i = 0 To 11
```

```
'Activate sheet
Sheets(yearValue).Activate

'2b)Loop through all rows to find if ticker matches
For j = 2 To RowCount

If Cells(j, 1).Value = tickerIndex Then

'3a)Increase ticker volume and add ticker volume to current ticker
tickervolume = tickervolume + Cells(j, 8).Value

'End if
End If

'3b)If this row is first row with current ticker
If Cells(j, 1).Value = tickerIndex And Cells(j - 1, 1).Value <> tickerIndex Then

'Assign ticker starting price to corresponding variable
tickerStartingPrices = Cells(j, 6).Value

'3c) If current row is last row to include ticker
ElseIf Cells(j, 1).Value = tickerIndex And Cells(j + 1, 1).Value <> tickerIndex Then

'Assign ticker ending price to variable
tickerEndingPrices = Cells(j, 6).Value

'Increase ticker index if next row doesn't match current row
Else

'End if
End If
Next j

'4) Loop through your arrays and output the Ticker, Total Daily Volume, and Return.

Worksheets("All Stocks Analysis").Activate

Cells(4 + i, 1).Value = tickerIndex
Cells(4 + i, 2).Value = tickervolume
Cells(4 + i, 3).Value = tickerEndingPrices / tickerStartingPrices - 1

Next i

'Formatting
Worksheets("All Stocks Analysis").Activate
Range("A3:C3").Font.FontStyle = "Bold Italic"
```

```
tickerVolumes(i) = 0
Next i

'2b)Loop through all rows to find if ticker matches
For j = 2 To RowCount

'3a) Increase current ticker volume
tickerVolumes(tickerIndex) = tickerVolumes(tickerIndex) + Cells(j, 8).Value

'3b)If this row is first row with current ticker
If Cells(j, 1).Value = tickers(tickerIndex) And Cells(j - 1, 1).Value <> tickers(tickerIndex) Then

'Assign ticker starting price to corresponding variable
tickerStartingPrices(tickerIndex) = Cells(j, 6).Value

End If

'3c) If current row is last row to include ticker
If Cells(j, 1).Value = tickers(tickerIndex) And Cells(j + 1, 1).Value <> tickers(tickerIndex) Then

'Assign ticker ending price to variable
tickerEndingPrices(tickerIndex) = Cells(j, 6).Value
tickerIndex = tickerIndex + 1

'Increase ticker index if next row doesn't match current row
Else

'End if
End If

Next j

'4) Loop through your arrays and output the Ticker, Total Daily Volume, and Return.
For k = 0 To 11
Worksheets("All Stocks Analysis").Activate

Cells(4 + k, 1).Value = tickers(k)
Cells(4 + k, 2).Value = tickerVolumes(k)
Cells(4 + k, 3).Value = tickerEndingPrices(k) / tickerStartingPrices(k) - 1

Next k

'Formatting
Worksheets("All Stocks Analysis").Activate
Range("A3:C3").Font.FontStyle = "Bold Italic"
```

```
        Range("A3:C3").Borders(xlEdgeBottom).LineStyle = xlContinuous
        Range("A3:C3").Font.Size = 14
        Range("B4:B15").NumberFormat = "#,##0"
        Range("C4:C15").NumberFormat = "0.0%"
        Columns("B").AutoFit

    dataRowStart = 4
    dataRowEnd = 15

    For k = dataRowStart To dataRowEnd

        If Cells(k, 3) > 0 Then
        Cells(k, 3).Interior.Color = vbGreen
        ElseIf Cells(k, 3) < 0 Then
        Cells(k, 3).Interior.Color = vbRed
        Else
        Cells(i, 3).Interior.Color = xlNone
'End if
    End If

        Next k

    'Stop clock
    endTime = Timer
    MsgBox "This code ran in" & (endTime - startTime) & "seconds for the year" & (yearValue)

End Sub

```

```
        Range("A3:C3").Borders(xlEdgeBottom).LineStyle = xlContinuous
        Range("A3:C3").Font.Size = 14
        Range("B4:B15").NumberFormat = "#,##0"
        Range("C4:C15").NumberFormat = "0.0%"
        Columns("B").AutoFit

    dataRowStart = 4
    dataRowEnd = 15

    For l = dataRowStart To dataRowEnd

        If Cells(l, 3) > 0 Then
        Cells(l, 3).Interior.Color = vbGreen
        ElseIf Cells(l, 3) < 0 Then
        Cells(l, 3).Interior.Color = vbRed
        Else
        Cells(l, 3).Interior.Color = xlNone
'End if
    End If

        Next l

    'Stop clock
    endTime = Timer
    MsgBox "This code ran in" & (endTime - startTime) & "seconds for the year" & (yearValue)

End Sub

```