* Sources
  + Looping through/selecting sheets in a workbook
    - Used this as a reference on how to generically loop through all the sheets in a workbook
    - Applied the main concept from “Macro to Loop Through All Worksheets in a Workbook” but used the sheet activation methods for in “How to Loop Through Worksheets in a Workbook in Excel VBA?”
      * Source: Referenced [For Each](https://support.microsoft.com/en-us/help/142126/macro-to-loop-through-all-worksheets-in-a-workbook) section
      * Source: Referenced [Using the Fore Each Loop](https://excelhelphq.com/how-to-loop-through-worksheets-in-a-workbook-in-excel-vba/) Section
  + Determining the last row in a dataset
    - Trying to determine what would be best route for the data we’re working with
    - In all cases, column A could be contiguous so going up from the last row in column A
      * Source: Referenced [Ctrl + Shift + End](https://www.thespreadsheetguru.com/blog/2014/7/7/5-different-ways-to-find-the-last-row-or-last-column-using-vba) option
  + Reformatting to Percent
    - Used this to format all percent summary statistics to present them more accurately
      * Source: Referenced [Top Answer](https://stackoverflow.com/questions/42844778/vba-for-each-cell-in-range-format-as-percentage) from RyanL
* Collaborations
  + Collaborated with Carolina Diaz and Maddie Sachtler on 12/20/2020
    - Solely discussing how to begin aggregating summary data for a single ticker spread out across multiple rows as well as some technical barriers we may encounter with the data set
    - No code was directly derived during these discussions
  + Collaborated with Peter Lenz and Maddie Sachtler on 12/22/2020
    - Talked through the technical way to determine the first and last day of the year in order to pull in the opening and closing values for those dates respectively
    - No code was directly derived during these discussions
* Thoughts
  + What is being asked?
    - Loop through all the stocks for each year - Sample only has 1 year check that the full isn't different
    - Loop through all the sheets - organized by starting letter - this can easily be done after
    - Return ticker, Yearly change and percent change(start to end), and total stock volume
    - From what we know, code is contingent on alphabetized data
      * How can we check automatically that this is the case?
      * Is date alphabetized?
    - Document manual process recorded through macro?
  + Pseudocode
    - Aggregate data based on open and close dates
      * Can either check min and max values (assumption being earliest/latest = min/max)
      * Can either convert to date format and run date check function
    - Run a loop for all of the same ticker type
      * Check if date value is min or max
      * When changing to a new ticker type, run all actions and perform them before moving on (do this before resetting all necessary values)
    - Running into an issue where 21.22/21.21 returns a value that is too long to hold in a Double variable
      * Rounding off any of the values found in the calculation itself would affect all summary tables to a fault so action likely should be taken there
      * The following are the 2 likely solutions
        + Round our result before reading it into the Yearly\_Change\_Percent Double
        + Use a different variable type - Take the value into Yearly\_Change\_Percent casting as a String > Truncate it so it only shows 2-4 characters after the decimal point > Cast it back into a Double > Write into the summary table

This feels like it may be the more complex but malleable solution

* + - * Alternatively, a common overflow error may occur any time that we are dividing by 0 so we can quickly check to see if there are any opening dates for tickers at $0
        + This should be something that we consider regardless as any ticker that gets created on any date that isn’t January 1st will give us this problem.
        + Determined that the ‘PLNT’ ticker has an opening date of 20140325 for the year and a closing date of 20141231, both at 0. The issue here would be the calculation of (0 – 0)/0. I would imagine VBA just isn’t able to deal with dividing by 0 in any case. Can set a conditional to capture this and return something in cases such that the closing date is 0.

Resolved issue with this solution.

* + - Bonus question runs easiest when it is its own subroutine
      * Attempted to append a subroutine pulling information from the summary tables in the StockSummary subroutine
        + VBA did not identify the data that was there even after it was read into the cells
        + This may be an issue of these values being printed simultaneously into the cells within each sheet/for each loop
      * Separated it into its own subroutine
        + May go back and identify a way to do this at a later point
        + Initial thoughts would be to re-activate the current sheet to test whether or not this will write the data at that moment… to then pull from/iterate through that data
        + Alternatively, we might just have to have a second for each loop after that goes back through each sheet