Questions and answers about HW#3

Students sent the following questions to me about the HW questions. I thought that it would be beneficial to share my answers with everyone. I also updated the HW questions to make them more clear where necessary. The only questions that I thought really needed to be updated is question #9 which had an extra word ("up") that was a typo.

Below are the questions that students asked and my answers to them. Also see the new version of the HW questions in the file entitled " 00300-R-Assignment-logicalOperatorsAndDataframes-stocks-v002.docx"  
(notice that this is "version 002" of the file as indicated by the final "-v002" in the file name.

-Prof. Rosenthal

# Question

Question #9 on the homework is a little confusing. The text reads:"Show all stocks that had news and/or fluctuated in price up by at least $10.00." Which one is it, 'AND' or 'OR'?

Answer

The word "up" should be removed - that was a typo. The "and/or" is an English language expression. If you google for "and/or" google will give you a definition. Also see this wikipedia page:   <https://en.wikipedia.org/wiki/And/or>

# Question

For question #13 do you want separate answers for a. and b. Or both should be combined into one command.

Answer

Both should be combined into a single answer.

# Question

For question #19 do you want separate answers for a. and b. Or both should be combined into one command.

Answer

Both should be combined into a single answer.

# Question:

I am a little confused with 21b. I did a. And now I’m just confused with what you mean by moved in the opposite direction to the nasdaq. If a. is true then do you want all the stocks that decreased?

Answer:

Your code for part a and for part b are independent of each other. If the data changes then the same code you wrote should still work. For example, if the data shows that the nasdaq as a whole went up your code should show the stocks that went down. If the data shows that the nasdaq as a whole went down then THE SAME EXACT CODE should show the stocks that went up.

# Question:

And for 23 similiar to the previous I’m just confused with the wording of average move. Would I divide the closing prices by the opening prices and then get the mean and go from there?

Answer: for the average move of the stock nasdaq, subtract the average closing prices of all nasdaq stocks from the average opening prices of all nasdaq stocks

# Question:

Regarding question # 21b: Write a command that shows those stocks that moved in the opposite direction to the nasdaq as a whole

Does this problem work only if all nasdaq stocks increased or decreased

My first line of code tells me that all stocks in creased. because the sum of nasdaq stocks whose closing price was greater than their opening price was 4 and the sum of all nasdaq stocks is also 4 so when asked if equal each other R answer TRUE

Answer:

The answer to #21 part (b) should be a single answer that works whether or not the nasdaq went up or down. If the nasdaq went up then show the stocks that went down. If the nasdaq went down, then show the stocks that went up. If you run the same exact command with data from different days, your R code should give the correct answer no matter whether the nasdaq went up or down that day.