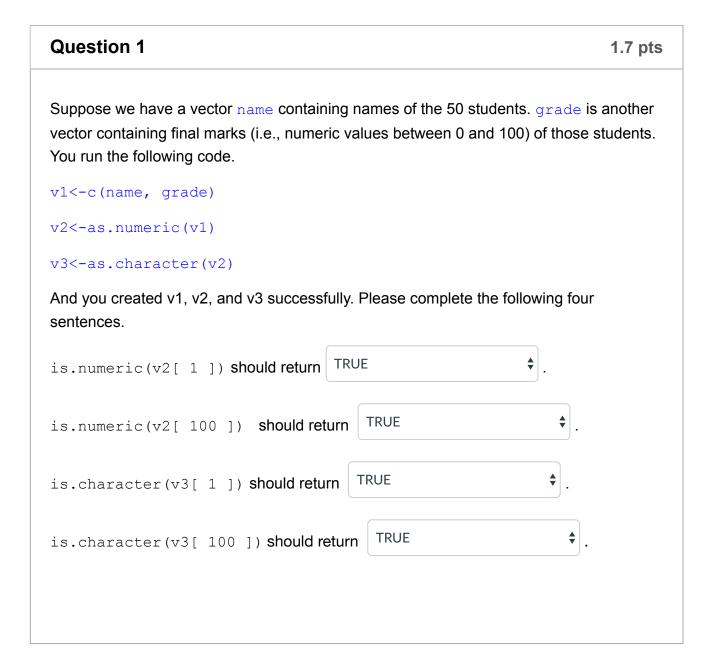
In-class Exercise 15

Started: Nov 27 at 2:41pm

Quiz Instructions



Question 2 1.66 pts

Again, suppose we have a vector name containing names of the 50 students. grade is another numeric vector containing final marks of those students.

We run the following code:

```
dat <- data_frame(name, grade)

dat[5,2] <- as.character(dat[5,2])

is.numeric(dat$grade)

The output should be</pre>
FALSE
```

Question 3 1.66 pts

Suppose using File Explorer (in Windows) or Finder (in Mac), you browsed to Documents folder and you created a folder called my_data under the Documents folder.

Then you launched your R Studio and set your working directory to <code>Documents</code> folder in your computer.

In R Studio, you loaded tidyverse and then created a new data frame called my data frame.

Suppose you want to export my_data_frame into a csv file and save it as my_data.csv under the my_data folder which you have just created under the Documents folder. What should be the R code that you need to execute?

```
write_csv(my_data_frame, Documents/my_data/my_data.csv)
write_csv(my_data_frame, Documents/my_data, my_data.csv)
write_csv(my_data_frame, "Documents/my_data/my_data.csv")
write_csv(my_data_frame, "my_data/my_data.csv")
write_csv(my_data_frame, "my_data/my_data.csv")
```

Question 4 1.66 pts

Supposed you launched your R Studio and set your working directory to Documents folder in your computer.

Suppose there is a folder called my data created under the Documents folder.

Suppose vancouver_housing_price.rds is a file saved under that my_data folder. You want to save the dataset in vancouver_housing_price.rds into a csv file. In particular, you want to name the csv file as vancouver_housing_price.csv and save it under the same my_data folder where rds file resides. Complete the following code to accomplish that.

```
write_csv ( readRDS ("my_data/vancouver_housing_price.
rds "), "my_data/vancouver_housing_price. Csv ")
```

Each blank should be either a name of a function or a file extension (e.g., csv, rds, Rmd etc.).

Question 5 1.66 pts

Alex has a data frame named df with 100 rows. a is the only column in df. a is a *numeric* column and does <u>not</u> have any NA.

He run the following code. Unfortunately, R output an error message.

```
df <- df %>% mutate(b = as.character(a), c = if_else(b>0,a,b))
```

Why did Alex receive an error message? Assume that tidyverse was already loaded.

- the same data frame name should not be in both sides of the assignment operator (i.e., arrow)
- c is a restricted name and cannot be used as a column name
- a numeric column cannot be converted into a character column
- second and third arguments in if_else() must be of the same data type

Question 6 1.66 pts

Suppose you open an R Script that Prof. Cavusoglu posted on Canvas in R Studio. Here is the screenshot of a segment of the code.

```
61 # Dear Students,
62
63 # It was a great pleasure to teach this intense and challenging course to such great students.
64 # For me, it has been a rewarding journey that I will foundly remember. I sincerely hope
4 that you will benefit from the skills you have developed over the last two months in your
66 # academic and professional careers.
67
68 df <- data_frame(turkish = c("Tesekkurler"),</pre>
69
                     english = c("Thank you"),
70
                     french = c("Merci"))
71
72 # The last thing that I wanted to say is:
73
74 df$english[which(df$turkish == "Tesekkurler")]
```

Assume that tidyverse is already loaded in the active R session.

If you execute the entire code in the screenshot (line 61- line 74), What would be the output you see on console?

```
# A tibble: 1 x 3
turkish english french
<chr> <chr> <chr> 1 Tesekkurler Thank you Merci
```

- [1] "Thank you"
- [1] "Merci"
- Error: unexpected '=' in "df\$english[which(df\$turkish ="

Quiz saved at 9:40pm

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