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Week 1 Quiz

20 questions

1. R was o	developed by statisticians working at
0	Harvard University
0	The University of Auckland
0	StatSci
0	Bell Labs

2.

The definition of free software consists of four freedoms (freedoms 0 through 3). Which of the following is NOT one of the freedoms that are part of the definition? Select all that apply.

The freedom to sell the software for any price.
The freedom to improve the program, and release your improvements to the public, so that the whole community benefits.
The freedom to run the program, for any purpose.
The freedom to study how the program works, and adapt it to your needs.
The freedom to prevent users from using the software for

undesirable purposes.

	The freedom to restrict access to the source code for the software.
	The freedom to redistribute copies so you can help your neighbor.
3. In R the	e following are all atomic data types EXCEPT: (Select all that apply)
	table
	list
	complex
	array
	logical
	integer
	numeric
	data frame
	matrix
	character
	cute the expression x <- 4L in R, what is the class of the object `x' as nined by the `class()' function?
0	numeric
0	character
0	matrix

O	complex
0	integer
0	logical
5. What i	s the class of the object defined by $x <- c(4, TRUE)$?
0	logical
0	character
0	list
0	numeric
	matrix
O	Hiddix
0	integer
lf I hav	integer e two vectors $x \leftarrow c(1,3,5)$ and $y \leftarrow c(3,2,10)$, what is produced by
lf I hav	integer e two vectors $x <- c(1,3,5)$ and $y <- c(3,2,10)$, what is produced by pression cbind(x , y)?
lf I hav	integer e two vectors $x \leftarrow c(1,3,5)$ and $y \leftarrow c(3,2,10)$, what is produced by pression cbind(x , y)? a vector of length 3
lf I hav	integer e two vectors x <- c(1,3, 5) and y <- c(3, 2, 10), what is produced by pression cbind(x, y)? a vector of length 3 a vector of length 2
lf I hav	integer e two vectors x <- c(1,3, 5) and y <- c(3, 2, 10), what is produced by pression cbind(x, y)? a vector of length 3 a vector of length 2 a matrix with 2 columns and 3 rows

7. A key ր	property of vectors in R is that
0	the length of a vector must be less than 32,768
0	elements of a vector can only be character or numeric
0	a vector cannot have have attributes like dimensions
0	elements of a vector all must be of the same class
0	elements of a vector can be of different classes
	se I have a list defined as x <- list(2, "a", "b", TRUE). What does x[[1]] e? Select all that apply.
	a numeric vector of length 1.
	a character vector containing the element "2".
	a numeric vector containing the element 2.
	a list containing the number 2.
	a list containing the letter "a".
	se I have a vector x <- 1:4 and y <- 2:3. What is produced by the ssion x + y?
0	an error.
0	a numeric vector with the values 3, 5, 3, 4.
0	an integer vector with the values 3, 5, 5, 7.
0	a warning
0	an integer vector with the values 3, 5, 3, 4.

\frown		2	г	_ 7	,
	an numeric vector with the values	Э,	Э,	J, /	•

a numeric vector with the values 1, 2, 5, 7.

10.

Suppose I have a vector x <- c(17, 14, 4, 5, 13, 12, 10) and I want to set all elements of this vector that are greater than 10 to be equal to 4. What R code achieves this? Select all that apply.

- x[x == 10] <- 4
- x[x == 4] > 10
- x[x >= 10] <- 4
- x[x >= 11] <- 4

11.

Use the Week 1 Quiz Data Set (https://d396qusza40orc.cloudfront.net/rprog/data/quiz1_data.zip) to answer questions 11-20.

In the dataset provided for this Quiz, what are the column names of the dataset?

- Ozone, Solar.R, Wind, Temp, Month, Day
- Month, Day, Temp, Wind
- **O** 1, 2, 3, 4, 5, 6

Ozone, Solar.R, Wind

12.

Extract the first 2 rows of the data frame and print them to the console. What does the output look like?

1 7 NA 6.9 74 5 11
2 35 274 10.3 82 7 17

1 18 224 13.8 67 9 17 2 NA 258 9.7 81 7 22	0		0zone	Solar.R	Wind	Temp	Month	Day	
2 NA 258 9.7 81 7 22		1	18	224	13.8	67	9	17	
		2	NA	258	9.7	81	7	22	

0		0zone	Solar.R	Wind	Temp	Month	Day	
	1	41	190	7.4	67	5	1	
	2	36	118	8.0	72	5	2	

0		0zone	Solar.R	Wind	Temp	Month	Day
	1	9	24	10.9	71	9	14
	2	18	131	8.0	76	9	29

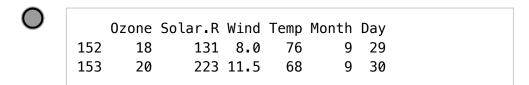
13.

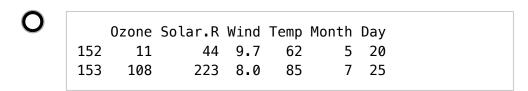
How many observations (i.e. rows) are in this data frame?

- **O** 160
- **O** 45
- **O** 129
- 153

14.

Extract the *last* 2 rows of the data frame and print them to the console. What does the output look like?





152 34 307 12.0 66 5 17	0		0zone	Solar.R	Wind	Temp	Month	Day
		152	34	307	12.0	66	5	17
153 13 27 10.3 76 9 18		153	13	27	10.3	76	9	18

0		0zone	Solar.R	Wind	Temp	Month	Day
	152	31	244	10.9	78	8	19
	153	29	127	9.7	82	6	7

15. What is the value of Ozone in the 47th row?

- **(**) 18
- **O** 34
- **O** 63
- **O** 21

16. How many missing values are in the Ozone column of this data frame?

- **O** 9
- **O** 37

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0	43						
0	78						
17.	s the mean of the Ozone column in this dataset? Exclude missing						
	(coded as NA) from this calculation.						
0	53.2						
0	31.5						
0	42.1						
0	18.0						
	t the subset of rows of the data frame where Ozone values are 31 and Temp values are above 90. What is the mean of Solar.R in bset?						
0	212.8						
0	334.0						
0	205.0						
0	185.9						
19. What i	s the mean of "Temp" when "Month" is equal to 6?						
0	75.3						
0	90.2						

79.1

0	85.6		Week I

20.

What was the maximum ozone value in the month of May (i.e. Month is equal to 5)?

- 18 97
- 115
- 100

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