## Quiz #2

## Instructions:

- You may see your submission for quiz questions as incorrect even if correct. Please <u>ignore</u> it.
- You can try any number of times.
- Remember, when you start over, your previous answers may be lost.
- Print/save as pdf to submit your answers after completion.

(For example: Quiz2\_ccherukuri.pdf)

• Due Date : 04/25/2018

Quiz
1.'is.vector' can be used as a test to check if an object is a vector or not?
O False
True
Submit Answer
2.How many types of atomic vector are in R?
O 4
<ul><li>5</li></ul>
○ 6
O 7
Submit Answer

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3.ln a vector if all names are missing it will return\_\_\_\_?

- O NA
- missing
- NULL

Submit Answer

4.A factor is a \_\_\_\_\_ that contains \_\_\_\_ values and are built on top of \_\_\_\_ vector?

- vector,predefined,int
- list,any,number
- vector,predefined,char

Submit Answer

## Data Structure Quiz

Admin: Saylee 04/18/2018

Start Over

5.What are the levels of this x<-factor(c("x","y","z","z","a"))

- x,y,z,a
- x,y,z,z,a
- 0 1,2,3,4
- 0 4

Submit Answer

6.Dataframe is a list of vectors and they are and shares properties of a and?
equal length,2d,matrix,list
<ul><li>equal length,2d,matrix,array</li></ul>
unequal length,3d,matrix,list
unequal length,3d,matrix,vector
Submit Answer
7.Which of the below are attributes of a matrix?
<pre>• dim(),nrow(),ncol()</pre>
<pre>dimnames(),rownames(),colnames()</pre>
All of above
<ul><li>None of the above</li></ul>
Submit Answer
8.The basic data structure in R is a It comes in two parts and
<ul><li>vector,atomic vector,array</li></ul>
atomic vector,vector,list
vector,atomic vector,list
Submit Answer

9.Numbers in R are treated as precision real numbers.
single
• double
O real
<ul><li>all of above</li></ul>
Submit Answer
10.Which of the below is an attribute of an object.
• dim
Class
length
All of above
Submit Answer
11.x<-6 , Class(x) is?
o int
Odouble
O real
All of above
Submit Answer

## Exercise

12. Find the sum of the vector x.

Code 

Start Over 

1 x<-c(TRUE, FALSE, TRUE, TRUE)
2 sum(x)

13.Convert x such that the structure is an integer.

14.Write a command to name the vector x as a,b,c? Hint: named vector!!

Use this below ouput as a reference to the next exercise –

```
## , , 1
##
##    a b c
## one 1 3 5
## two 2 4 6
##
##    , , 2
##
##    a b c
## one 1 3 5
## two 2 4 6
```

15. Write a command which gives a 2 - dimensional array as shown above!

16. Write a command to find the length of the above array?

```
object 'arr1' not found
```

17. Write a command to get structure of the below data frame converting/keeping 'x' as string/character?



```
'data.frame': 3 obs. of 1 variable:

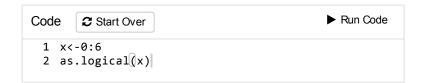
$ x: Factor w/ 3 levels "a","b","c": 1 2 3
```

18. Write a command to extract column y.2 from the below dataframe?

Note: If you couldn't see the output, take it evaluate in your local R console/script and work from there.

```
[1] 4 5 6
```

19.Write a command to convert the vector x (see below code) as "FALSE TRUE TRUE TRUE TRUE TRUE TRUE"?



20.Write a command to convert the vector  $\times$  as "0", "1", "2", "3", "4", "5", "6"?

```
Code  

Start Over

1 x<-0:6
2 as.factor(x)|
3
```

```
[1] 0 1 2 3 4 5 6
Levels: 0 1 2 3 4 5 6
```

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