Solutions

Quiz 2 : data structures

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Due date : 04/25/18

1. is.vector can be used as a test to check if an object is a vector or not? false

2. How many types of atomic vector in R? 6

3. In a vector if all names are missing it will return)? Null

4. A factor is a _____ that contains _____ values and are built on top of _____ vector?
Vector, predefined, int

5. What is the level of the foll x<-factor(c("x","y","z","z","a"))' ? x,y,z,a

6. Dataframe is a list of _____ vectors and they are _dim and shares properties of _____ and _____ ? equal length, 2d, matrix, list

7. Foll are the attributes of matrix? dim(),nrow(),ncol()

8. The basic data structure in R is a _____ . It comes in two parts _____ and _____ "?
vector, atomic vector, list

9. Numbers in R are treated as _____ precision real numbers? Double

10. Which of the foll is an object attribute? Dim, class length

11. x<-6 , Class(x) is: double

12 Find the sum of x<-(true,false,true,true)

Ans   as . numeric (x)

         sum (x

13. Convt x<-c(1,2) such that the structure is a int

x<-c(1L,2L)

Ans

x

14. X<-C(1.2,4.5,6.5) write a command to name them as a,b,c

$x \leftarrow c (a = 1.2, \ b = 4.5, \ c = 6.5)$

15. write a command which gives op array of

"1 a b c

one 1 3 5

two 2 4 6

"2 a b c

one 1 3 5

two 2 4 6

$b \leftarrow array \ (1:6, \ c \ (2,3,2) \ )$

$row \ names \ (b) \leftarrow c \ ("one", \ "two")$

$col \ names \ (b) \leftarrow c \ ("a", "b", "c")$

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

$dim \ (b) = 232$

17. Write a command to get structure of the foll as char x<-c(a,b,c)?

$x \leftarrow c \ (a, b, c)$

$String \ as \ factor = false$

18. df<-data.frame(x=1:3 y=l(matrix(1:9),nrow=3)?Write a command to get col o/p 4,5,6

$dfm \ [\ , "y"] \ [\ , 2 \ ]$

19. Write a command to create foll o/p false,true,true,true,true,true for the vector x<-0:6
?

$as. \ logical \ (x)$

20. Write a command to create foll o/p "0","1","2","3","4","5","6", for the vector x<-0:6?

$as. \ char \ (x)$