R Programming Assignment 2

1.

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| > m1<-matrix(1:9,byrow=T,nrow=3)  > m1  [,1] [,2] [,3]  [1,] 1 2 3  [2,] 4 5 6  [3,] 7 8 9  > v<-as.vector(m1)  > v<-as.vector(m1)  > v  [1] 1 4 7 2 5 8 3 6 9 |
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| |  | | --- | | 2.  **sum(), colSums(), rowSums(), mean(), colMeans(), and rowMeans()** functions are the functions which generate the basic statistics for the given matrix  **vector() , as. vector()** are functions associated with vector | |

3. It takes up a lot of memory.

4. Start each program with a description of what it does.

Then load all required packages.

Use comments to mark off sections of code.

5. The DIM function returns the number of elements in a one-dimensional array or the number of elements in a specified dimension of a multidimensional array when the lower bound of the dimension is 1.

6.

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| > v = sample(1:5,24,replace = TRUE)  > dim(v) = c(3,2,4)  > print("3-dimension array:")  [1] "3-dimension array:"  > print(v)  , , 1  [,1] [,2]  [1,] 5 5  [2,] 5 3  [3,] 3 3  , , 2  [,1] [,2]  [1,] 5 2  [2,] 3 4  [3,] 5 1  , , 3  [,1] [,2]  [1,] 1 1  [2,] 2 1  [3,] 2 2  , , 4  [,1] [,2]  [1,] 1 4  [2,] 3 3  [3,] 3 2 |
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7. save data as an RData object

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