DSCI 301 - Lab 2

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Now: do Lab2. \* Create a new R Markdown document with File > New File > R Markdown. \* title: “DSCI 301 - Lab 2” \* author: “Put your name” \* Save your file as DSCI 301 - Lab 2 - LastName.rmd \* Knit your RMD file into Microsoft Word \* After you are done, load both your files into Canvas, Lab 2, before 12:50p.m

1. Create 2 vectors A and B, where A is (1,2,3) and B is (4,5,6). With these vectors, use the cbind() or rbind() function to create a 2 by 3 matrix C from the vectors. Display C. You’ll need to figure out which of these binding functions is the correct choice.

A <- c(1:3)  
B <- c(4:6)  
C<- rbind(A,B)  
C

## [,1] [,2] [,3]  
## A 1 2 3  
## B 4 5 6

1. Create a 3 by 3 matrix consisting of the numbers 1-9. Create this matrix using the shortcut 1:9 and by specifying the nrow argument in the matrix() function call. Assign this matrix to the variable D. Display D.

D <- matrix(1:9, nrow=3)  
D

## [,1] [,2] [,3]  
## [1,] 1 4 7  
## [2,] 2 5 8  
## [3,] 3 6 9

1. Create a 5 by 5 matrix consisting of the numbers 1-25 and assign it to the variable E. Display E. The top row should be the numbers 1-5.

E <- matrix(1:25, nrow=5, byrow= TRUE)  
E

## [,1] [,2] [,3] [,4] [,5]  
## [1,] 1 2 3 4 5  
## [2,] 6 7 8 9 10  
## [3,] 11 12 13 14 15  
## [4,] 16 17 18 19 20  
## [5,] 21 22 23 24 25

1. Using indexing notation, grab a sub-section of E from the previous exercise that looks like this: [7,8] [12,13] Assign this subsection to F. Display F.

E[2:3,2:3]

## [,1] [,2]  
## [1,] 7 8  
## [2,] 12 13