

Exercises, Chapter 6

Exercise 6.1

True or False: A matrix is a special case of an array.

Exercise 6.2

Write an R command that assigns the first 18 positive integers to the 3 x 3 x 2 array named x using the default input convention. Next, write an R command that extracts the elements of x in a fashion that includes the second and third rows, excludes the second column, and includes the second layer.

Exercise 6.3

The 3 x 4 x 5 array a is filled with numeric values. The R command `> b = a[c(1,3),-c(1,4),3:5]` sets b to a 2 x 3 x 3 array that includes the first and third rows, excludes the first and fourth columns, and includes the third, fourth, and fifth layers of a . Write an R command that accomplishes this same operation using the smallest number of keystrokes.

Exercises taken from Chapter 6, “Learning Base R”, by Lawrence M Leemis, ISBN 978-0-9829174-8-0