

Name _____

Kruschke chapter 3.1-3.4.

1. Create a vector that is a sequence of from 1 to 100 and that is of length 200.
2. Multiply each element in this list by 2 and find the sum of the resulting vector.
3. Create a sequence of integers from 1 to 100.
4. Square each element of this vector and find the summation of this transformed vector.
5. Select all elements of the transformed vector (from 4 above) that are less than 50.
6. Create a 3 (rows) by 4 (cols) matrix of values 1:12
7. Multiple the component at the location [2,3] and the component at [3,2].
8. Name the rows (a,b,c) and the columns (1,2,3,4).
9. Create a 4 dimensional array that continues the matrix created in 4 above to four dimensions. Name the dimensions of the array.
10. Multiply the 2nd row of the 2 dimension by the [3,3] element of the 4th dimension.
11. Create a vector of (1,2) replicated to length 10. Transform the vector to a factor. Change the names of the level 1 to 'low' and level 2 to 'high'
12. Create a vector of integers 1 to 10. Create a data frame that combines this vector with the factor variable created in 9 above.
13. Name the columns of 10: 'id', 'treatment'.
14. Extract positions 1,2,3 and 7 of the treatment column.