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R introduction

- 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 3 dimensional array that replicates the matrix created in 4 above three times in the $3^{\rm rd}$ dimensions. Continue the sequence of numbers to 48. 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 11 above.
- 13. Name the columns of 12: 'id', 'treatment'.
- 14. Extract positions 1,2,3 and 7 of the treatment column.