**R programming:**

1. Write a for-loop to calculate the sum from 1, 2, to 100.
2. For a given matrix, find the indices of columns that contain exactly one entry larger than 20. (Please try to write a two-layer loop, instead of using a matrix operation)
3. Write a function that takes an integer matrix as input and outputs a matrix indicating whether the corresponding entry is a prime number or not.
4. Write a function to select the two largest elements in an array. (Again, please try to write code from the scratch instead of using R functions such as sort and max.)

**The following assignments will be graded.**

1. Given an integer N, make an N x N magic square. (Don’t know what is magic square? See here: <https://en.wikipedia.org/wiki/Magic_square>)