

# CS2302 Data Structures

## Spring 2020

### Quiz 2

**Open notes. You may request assistance from TA, IA, PL, and instructor**

1. Write the function `x_array(n)` that receives an integer `n` and returns a square array of integers of size `n-by-n` where all elements are equal to zero except for the elements in the diagonal and secondary diagonal, which are equal to 1.
2. Write the recursive function `remove_i(L,i)` that receives a list of integers `L` and an integer `i` and returns the list that results from removing all occurrences of `i` from `L` (without modifying `L`).
3. Write the function `nested_squares(ax,n,x0,y0,size)` that draws a figure like the one below, where `n` is the number of figures, `x0,y0` is the center of the figure, and `size` is the distance from the center to one of the square's corners.

