Lab 11: Recursion

You are going to write series of **recursive** functions. Make sure to use recursion to solve these problems (**no loops** are needed). Write a main function that will call your recursive functions and display the results.

1. int sumX(int x): sums all the numbers from 0 … x. x can be any integer.
2. int sumXY(int x, int y): sums all the numbers between x and y. Assume y ≥ x.
3. Modify your code from problem (2) to allow it to work regardless of whether x or y is larger.
4. void fillArray(int arr[], int size): fills the array with random integers between 0 and 10.  
   Hint: seed the random number generator in main, not in fillArray or else you’ll end up with the same random number over and over again.