Lab 8: Unit Testing

Write a simple java class with the following methods:

addInts(int x, int y) // returns x + y;  
addStrings(String x, String y) // returns concatenated string x+y;

findLen(String x) // returns the length of x;

divXByY(int x, int y) // returns int( x/y ), or null if y == 0;

reverseIntArray(int[] x) // returns x in reverse order;

Write a JUnit test that includes a success (using assertEquals) and a failure (using assertFalse) for each method, as well as the following specific test cases

addInts:  
 Test success adding negative numbers as well as positive

Test failure on overflow

addStrings:

Test length of return is equal to length(x) + length(y)

findLen  
 Test empty string as well as regular  
divXbyY:  
 Test return null on 0

Test return type == int

reverseIntArray:

Test sum(input) == sum(output)

Write a java method that duplicates the range() function in python. The range() function generates a list of numbers. If range(x) is specified with a single parameter x, it produces the list of integers from [1,x). If range(x,y) is specified with two parameters x and y, it produces the range of integers from [x,y), counting by +1. If range(x,y,z) is specified with three parameters, it produces the range of integers [x,y), counting by +z.

Your method should be overloaded with all 3 options.

Write a full barrage of unit tests for all 3 methods.