

# Introduction to Computer Science and Programming 1 CSCI120

Chapter11: Recursion

Sample Coding

<u>Note</u>: This document has been designed and developed as part of an initiative for creating an OER (Open Education Resource) package for the course CSCI 120 at Columbia College.

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## Problem1

- Write a function which receives a list of string and concatenates all string in the list and returns it. (recursive function)

## Problem2

- Write a recursive function that receives a string and calculates all permutation of the given input string and prints them.

#### Problem3

- Write a recursive function that receive a number n as its input parameter and prints the following pattern. For instance, if n = 4

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#### **Problem4**

- Write a recursive function which receives an integer, n, and calculates Log <sup>n</sup><sub>2</sub> and returns it.

Good Luck <sup>©</sup>