

CSC 122 –Data Structures
Hw4 – Recursion
Due: Monday 4/13 at 8:00 AM via Moodle

Please do this in your pairs.

1. Write a recursive function named **product** that takes two parameters m and n , both integers. The function should return the product of all the numbers between m and n inclusive. For example, the function call **product(5, 3)** should return 60, because $3 \times 4 \times 5 = 60$. You may not make any assumptions about the values or order of the two parameters. If m and n are the same, return m (or n , since they are the same).
2. Write a recursive function named **findMaxInList** that takes a linked list of ints and returns the largest int in that list. (Assume that it won't be an empty list.)
3. Write a recursive function named **sumEvens** that takes a linked list of ints and returns the sum of only the even numbers in the list.