CS410 Homework - 2

*Disclaimer: You are **not allowed** to use any **pre-defined or built-in functions**. Any helper functions if needed needs to be written as part of the submission. This homework has **2 parts**. Submit a single source file that contains all functions.*

Question 1 of 2: **Checking for sorted-ness**: *[50 marks]* Write a function along with helper functions as needed, that takes a list of elements as a parameter and checks if the elements are sorted in ascending order.

Please properly comment your code before submission.

For this part of the assignment, name your function as chkIfSorted and include it in the source file HW2_WSUID.hs. For example, if your user ID is A999B999 name your file as HW2_A999B999.hs.

Sample Test cases:

Test case 1: chkIfSorted [14, 12, 2, 5, 3, 8, 10] Output: False	**Test case 2:** chkIfSorted [2, 5, 7, 10, 14, 21] Output: True
Test case 3: chkIfSorted [21, 14, 10, 7, 5, 2] Output: False	**Test case 4:** chkIfSorted [3] Output: True

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Question 2 of 2: **Rank Numbers**: *[50 marks]* Write a function along with helper functions as needed, that takes *three separate numbers* as parameters and returns a list with the elements sorted in ascending order.

Your function declaration would be of the form: ***rankNumbers :: Int -> Int -> Int -> [Int]***

Please properly comment your code before submission.

For this part of the assignment, name your function as rankNumbers and include it in the source file HW2_WSUID.hs. For example, if your user ID is A999B999 name your file as HW2_A999B999.hs.

Sample Test cases:

Test case 1: rankNumbers 14 12 2 Output: [2, 12, 14]	**Test case 2:** rankNumbers 4 12 2 Output: [2, 4, 12]
Test case 3: chkIfSorted 1 4 9 Output: [1, 4, 9]	**Test case 4:** chkIfSorted 9 4 1 Output: [1, 4, 9]