Assignment 8

**Please read turn-in checklist at the end of this document before you start doing exercises.**

**Java Implementation**

1. Implement the dynamic programming Subset Sum Algorithm in Java.

Note:

Find a file called SubsetSumDP.java in assignment 8 folder.

Complete the method of subsetSum().

Test your method in the main method provided following the comments.

**Full credit (30 points) will be awarded for a dynamic programming implementation of SubsetSum. Programs that are NOT dynamic programming will be scored out of 10 points.**

1. Implement Problem 2 in Online Quiz 9, the dynamic programming maximum contiguous subsequence Algorithm in Java.

Note:

Find a file called ContiguousSumDP.java in assignment 8 folder.

Complete the method of MaximumSumContSubsequence ().

Test your method in the main method provided following the comments.

**Full credit (30 points) will be awarded for a dynamic programming implementation of Maximum Sum of Contiguous Subsequence. Programs that are NOT dynamic programming will be scored out of 10 points.**

1. Implement Problem 3 in Online Quiz 9, the dynamic programming longest increasing subsequence Algorithm in Java.

Note:

Find a file called LongestIncreasingDP.java in assignment 8 folder.

Complete the method of LongestIncreasingSubsequence ().

Test your method in the main method provided following the comments.

**Full credit (30 points) will be awarded for a dynamic programming implementation. Programs that are NOT dynamic programming will be scored out of 10 points.**

**TURN-IN CHECKLIST:**

1. **All your source Code (.java files). Remember to include your name, the date, and the course number in comments near the beginning of your code.**
2. **Create a folder and name it 'FirstName\_LastName\_assignment\_7'. In the newly created folder copy and paste your files (.java files). Then compress the folder, and push it to iLearn.**