Homework 1. Part 2  
Due: Wednesday, January 17, 2018 before 3pm EST.

Problem 1  [DPV] 6.1 – Max sum of substring

Only need to output the maximum sum
Note: contiguous subsequence = substring.

(a) Define the entries of your table in words. E.g., $T(i)$ or $T(i,j)$ is ....

(b) State recurrence for entries of table in terms of smaller subproblems.
(c) Write pseudocode for your algorithm to solve this problem.

(d) Analyze the running time of your algorithm.
Problem 2  [DPV] 6.2 – Hotel stops with minimum penalty.

Only need to output the minimum penalty.

(a) Define the entries of your table in words. E.g., $T(i)$ or $T(i, j)$ is ....

(b) State recurrence for entries of table in terms of smaller subproblems.
(c) Write pseudocode for your algorithm to solve this problem.

(d) Analyze the running time of your algorithm.