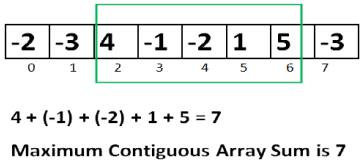
Lab Exercise 2 | Week 3

Implement ***the maximum- subarray problem.***

a. *Input: Array of integers.*
b. *Output: Maximum contiguous subarray sum.*

Implement with

a. ***Brute Force Solution***: Solving it for every possible subarray.
b. Divide and Conquer:
  a. Divide the given array in two halves.
  b. Return the maximum of following three
    i. Maximum subarray sum in left half (Make a recursive call)
    ii. Maximum subarray sum in right half (Make a recursive call)
    iii. Maximum subarray sum such that the subarray crosses the midpoint.
c. *Example:*



Write the analysis in detail and conclude.