1. Using recursion method (Theta n lg n):  
   Using Maximum contiguous sub-array algorithm Implement a Program in Java or Python  
   to find a maximum sub-array in a given array of size N,  
   1. Input at least 5 – 8 or more sets of randomized unsorted data with N elements in  
   each set. For example, N= 15, 20, 25, 30, 40, 45 49. Your array elements must be  
   of real numbers.  
   2. Display the original array and the maximum sub-array beginning and ending  
   interval and the sum for each maximum sub-array.  
   b) Draw graphs by using counter in the program to compare the actual counting of the  
   algorithm time complexity and the theoretical time complexity.  
   c) Use brute-force method (Theta n square):  
   Use brute-force method to write program to solve maximum subarray  
   problem and provide output that are same as the above a) and b).