Finding maximum subarray

Given an array arr[] of size N. The task is to find the sum of the contiguous subarray within a arr[] with the largest sum.

Kadane’s Algorithm:

Initialize:

max\_so\_far = INT\_MIN

max\_ending\_here = 0

Loop for each element of the array

(a) max\_ending\_here = max\_ending\_here + a[i]

(b) if(max\_so\_far < max\_ending\_here)

max\_so\_far = max\_ending\_here

(c) if(max\_ending\_here < 0)

max\_ending\_here = 0

return max\_so\_far