25. Given an integer array nums, find the subarray with the largest sum, and return its sum.

Example 1:

Input: nums = [-2,1,-3,4,-1,2,1,-5,4]

Output: 6

Explanation: The subarray [4,-1,2,1] has the largest sum 6.

PROGRAM:

def maxSubArray(nums):

max_sum = nums[0]

current_sum = nums[0]

for num in nums[1:]:

current_sum = max(num, current_sum + num)

max_sum = max(max_sum, current_sum)

return max_sum

nums = [-2,1,-3,4,-1,2,1,-5,4]

print(maxSubArray(nums))

6 OUTPUT:

TIME COMPLEXITY: O(n)