53. Maximum Subarray

Solved

Medium Topics Companies
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.

Example 2:

Input: nums = [1]

Output: 1

Explanation: The subarray [1] has the largest sum 1.

Example 3:

Input: nums = [5,4,-1,7,8]

Output: 23

Explanation: The subarray [5,4,-1,7,8] has the largest sum 23.

Constraints:

- 1 <= nums.length <= 10⁵
- $-10^4 \le nums[i] \le 10^4$

Follow up: If you have figured out the O(n) solution, try coding another solution using the **divide and conquer** approach, which is more subtle.