

Question

Sunday, 7 May 2023

12:47 PM

53. Maximum Subarray

Medium

👍 29.5K

💬 1.3K



🏢 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`
- `-104 <= nums[i] <= 104`

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.

