

Maximum Subarray

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.

53. Maximum Subarray

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Given an integer array `nums`, find the contiguous subarray (containing at least one number) which has the largest sum and return *its sum*.

A **subarray** is a **contiguous** part of an array.

Example 1:

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

Output: 6

Explanation: `[4,-1,2,1]` has the largest sum = 6.

Example 2:

Input: `nums = [1]`

Output: 1

Example 3:

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

Output: 23

