

## 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.

**Example:****Input:** `[-2,1,-3,4,-1,2,1,-5,4]`,**Output:** 6**Explanation:** `[4,-1,2,1]` has the largest sum = 6.**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.

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```
1 class Solution(object):
2     def maxSubArray(self, nums):
3         max_ending_here = max_so_far = nums[0]
4         for i in nums[1:]:
5             max_ending_here = max(i, max_ending_here + i)
6             max_so_far = max(max_so_far, max_ending_here)
7         return max_so_far
```

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Notes

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