**41. Maximum Subarray**

中文

English

Given an array of integers, find a contiguous subarray which has the largest sum.

**Example**

**Example1:**

Input: [−2,2,−3,4,−1,2,1,−5,3]

Output: 6

Explanation: the contiguous subarray [4,−1,2,1] has the largest sum = 6.

**Example2:**

Input: [1,2,3,4]

Output: 10

Explanation: the contiguous subarray [1,2,3,4] has the largest sum = 10.

**Challenge**

Can you do it in time complexity O(n)?

**Notice**

The subarray should contain at least one number.